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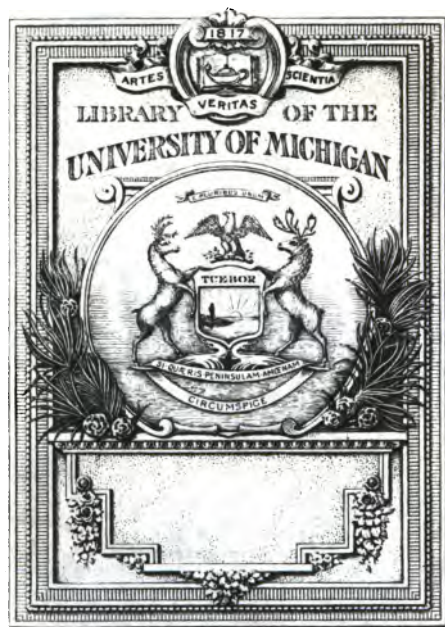
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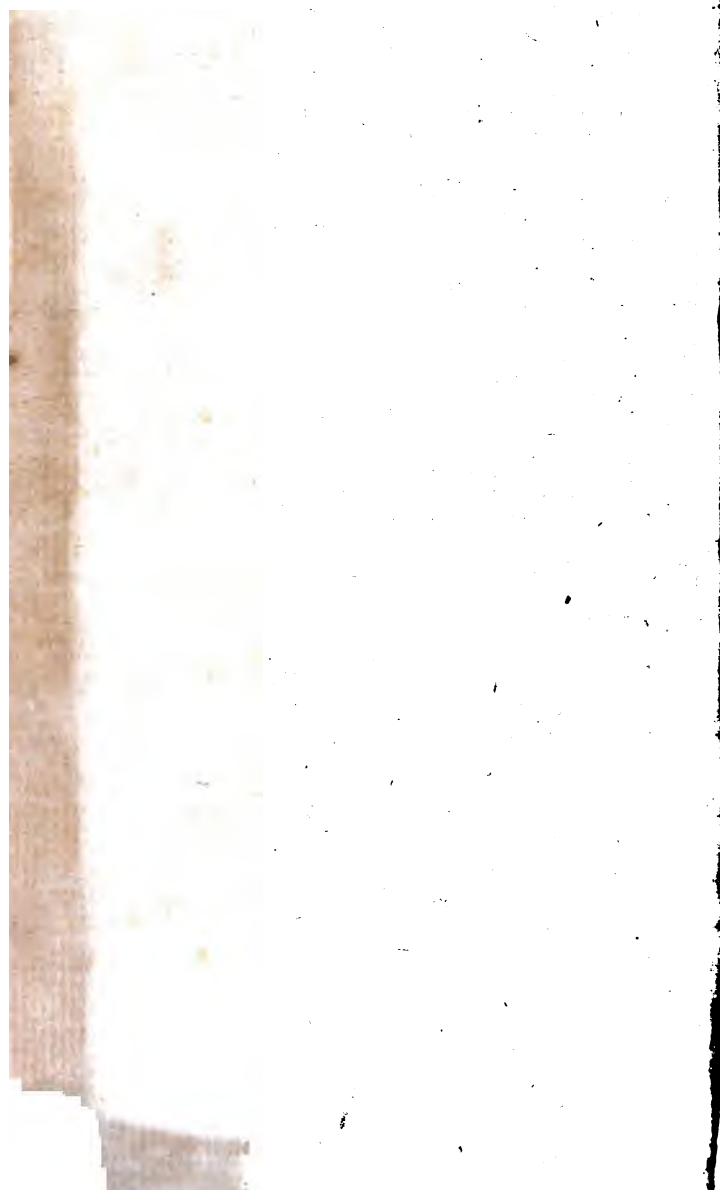
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# PARKER'S AMERICAN CITIZEN'S SURE GUIDE,

OR  
*READY RECKONER, MEASURER, AND  
CALENDAR.*

CONTAINING TABLES,

Showing the square and cube roots of the nine digits, in whole or decimal numbers—Superficial and cubical measure—The value of any number of goods from one hundredth of a mill to an infinite number of dollars—Simple Interest at any rate per cent. for any number of dollars, cents, or mills—Rebate or discount for any term or rate per cent.—Taxes or Rates on any number of dollars, cents, or mills, at any given demand—The currencies of the several States reduced to Federal currency—Federal currency reduced to the currency of each individual State—Monies of Foreign Nations, with rules to reduce large or small sums to dollars, cents and mills—English, Portuguese, Spanish and French Gold Coins—Difference of pure

and standard Gold and Silver—Hebrew weights, measures, &c. The time of the sun's rising and setting for lat.  $41^{\circ} 10' N.$ —Equation of time—Dominical letter, epact, and golden number—The day of the week any day of the month will fall on for 20 years—The day of the week any day of the month has fallen on for 60 years—The day of the month the new moon will fall on for 20 years—Her age and southing—High and low water, on any day of the month—Time of the known fixed stars coming to the meridian—Courts, remarkable events, &c.—Precedents in Arithmetic, and writing—With a variety of useful matter, adapted to the use of all persons who buy, sell, or transact business of any kind; the whole being a complete

*FAMILY COMPANION.*

BY SOLOMON PARKER.

*SAG-HARBOR :*

PRINTED BY ALDEN SPOONER,  
FOR THE AUTHOR.

.....  
1808.  
.....

## *District of New-York, ss.*

**B**E it remembered, that on the twenty-seventh day of July, in the thirty third year of the Independence of the United States of America, SOLOMON PARKER, of the said district, hath deposited in this office the title of a Book, the right whereof he claims as author, in the words and figures following, to wit :

“ Parker's American Citizen's Sure Guide ; or Ready Re-  
“ koner, Measurer, and Calendar, containing Tables, shewing the  
“ square and cube roots of the nine digits, in whole or decimal  
“ numbers—Superficial and cubical measure—The value of any  
“ number of goods from one hundredth of a mill to an infinite  
“ number of dollars—Simple Interest at any rate per cent. for any  
“ number of dollars, cents, or mills—Rebate or discount for any  
“ term or rate per cent.—Taxes or Rates on any number of  
“ dollars, cents or mills, at any given demand—The currencies  
“ of the several States reduced to Federal currency—Federal cur-  
“ rency reduced to the currency of each individual State—Monies  
“ of Foreign Nations, with rules to reduce large or small sums  
“ to dollars, cents and mills—English, Portuguese, Spanish and  
“ French Gold Coins—Difference of pure and standard gold and  
“ silver—Hebrew weights, measures, &c.—The time of the sun's  
“ rising and setting for lat.  $41^{\circ} 10'$  N.—Equation of time—Do-  
“ minical letter, epact, and golden number—The day of the  
“ week any day of the month will fall on for 20 years—The day  
“ of the week any day of the month has fell on for 80 years—  
“ The day of the month the new moon will fall on for 20 years  
“ —Her age, southing, high and low water on any day of the  
“ month—Time of the known fixed stars coming to the meridian  
“ —Courts, remarkable events, &c.—Precedents in Arithmetic  
“ and writing—With a variety of useful matter, adapted to the  
“ use of all persons who buy, sell, or transact business of any  
“ kind ; the whole being a complete FAMILY COMPANION —  
“ By SOLOMON PARKER.”

In conformity to the act of the Congress of the United States  
entitled “ An act for the encouragement of learning, by securing  
“ the copies of maps, charts, and books, to the authors and pro-  
“ prietors of such copies, during the times therein mentioned ;  
“ and also to an act entitled an act supplementary to an act enti-  
“ tled an act for the encouragement of learning, by securing the  
“ copies of maps charts and books to the authors and proprietors  
“ of such copies, during the times therein mentioned, and extend-  
“ ing the benefits thereof to the arts of designing, engraving, and  
“ etching historical and other prints.”

EDWARD DUNSCOMB,  
Clerk of the district of New-York.

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## TO THE PUBLIC.

*OF the use and benefit of a guide calculated to assist the Farmer, Mechanic, Town-Officer, Tide-waiter, Merchant, Agent, Scrivener, &c. every practitioner will be convinced.*

*A work of this nature will be a matter of satisfaction, especially to those who are wholly or in part unacquainted with arithmetic, the necessary forms or instruments in drafting, &c.*

*To facilitate the work, and render it familiar to those of the lowest class of education, (which class the author considers it his greatest duty to serve) he has prefixed two Keys of explanation, to the body of the work,*  
*which*

iv  
which contain rules and examples sufficient  
for practice, to which the Reader is refer-  
red.

No pains have been spared to render the  
work as correct as possible, by a thorough ex-  
amination of the proof-sheets ; many errors  
may, however, have escaped correction, if  
any such should be pointed out, it would be  
considered as a mark of favor and friend-  
ship, by

SOLOMON PARKER.

# K E Y

## TO THE FIRST TABLES.

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**THESE** Tables, though simple, contain not only the squares and cubes but even the roots of all powers ; which shew at once their great use and facility.

The first tables are numbered from 1 in a numerical succession to 99—each table is again numbered from 1 to 199 numerically, where it breaks off abruptly, and is then numbered 365, where it ends. The letters **NO.** signify the numbers at the top of the tables, and the letter *N*, signifies the numbers standing in the table. The **NO.** may be called any name or number required, only observing to give the right hand figure of the answer the same name which is in the place of units, the next figure to the left hand in the place of tens, &c. and as many cyphers as you add to **NO.** so many you must add to the answer, in the table ; still observing that the right hand cypher, thus added, bears the same name as before directed. *N.* may be augmented or diminished in, like proportion, even to infinite numbers. When **NO.** and *N.* are both decimal numbers, the right hand figure of the answer will stand in the place of hundredths. I shall therefore explain the use of the tables by giving rules and working them. It is a rule in arithmetic that any number multiplied by itself produces a square ; and any number multiplied by its square produces a cube. To find one side of any square number is called the extraction of the square root of that number. If a  
cube

cube be given to find out a number which being multiplied into its square produceth the number given—this is called the extraction of the cube root.

## EXAMPLE.

Find the square and cube of 7.—Take NO. 7, then under *N.* in the same table, take 7, against which stands 49—the *square*. Then against *N.* 49, found in the same table, stands 343—the *cube* required. Then NO. 7 becomes the square root of 49, and the cube root of 343. In like manner may the squares and cubes of the nine powers be found, either in whole or in decimal numbers; observing in decimal numbers to call the right hand figure of the answer after the same name of your given decimal note. For 7. 5-tenths, take NO. 75; for 4. 3-tenths, take NO. 43; for 1. 7-tenths take NO. 17; for 2. 9-tenths, take NO. 29; for 6. 8-tenths, take NO. 68, &c, and in like proportion for any other number.

## EXAMPLE.

What is the square and cube of 1. 2-tenths? For the given number, 1. 2-tenths, take NO. 12, then under *N.* find 12, against which stands 1. 44-hundredths, the square—then against *N.* 144 stands 17. 28-hundredths, the cube—then 1. 2-tenths becomes the square root of 1. 44-hundredths, and the cube root of 17. 28-hundredths. In like manner you may proceed to infinite numbers.<sup>o</sup>

To find the product of any two numbers multiplied together. *Rule*.—Call NO. the multiplier, and *N.* the multiplicand—in an angle of meeting stands the product or answer.

## EXAMPLES.

1. Find the product of 197 multiplied by 83.—Find NO. 83 for the multiplier, then find *N.* 197 for the multiplicand, against which stands 16351, the product or answer.

2. What



2. What is the product of 57, multiplied by 19?

1083, the Answer.

3. Find the product of 1990, multiplied by 99.—  
Find NO. 99, then find *N.* 199; to which add a cypher; it then becomes 1990, against which stands (remembering to pay the borrowed cypher) 197010, the product or answer.

*Note*—The product of any two numbers can be found by addition of cyphers, remembering to place as many cyphers to the right hand of the answer, as you borrow to augment the numbers required. To use this table for multiplying of decimal numbers—

*Rule*—Call NO. and *N.* the given decimals, and in an angle of meeting stands the answer. *Example*—What is the product of 2.3 multiplied by 1.7? For 1.7 take NO. 17; then for 2.3 take *N.* 23, against which stands 3.91-hundredths, the answer.

*Note*—If NO. 17 is assumed as a decimal number, and *N.* 23 as a whole number, the answer will stand thus—39.1-tenth.

To find the price of any number or quantity of goods or merchandize. *Rule*—With the given price of one ounce, pound, hundred, &c. enter the tables, and find NO. to agree with the given price; then under *N.* find the given quantity, against which, in the right hand column, stands the answer required.

#### EXAMPLES.

1. What is the value of 79 lb. of butter, at 17 cents per pound. Here the given price for one pound is 17 cents: with this price enter the tables and find NO. 17, then in the same table under *N.* find 79, the number of pounds, against which stands \$13 43 cents, the answer.

2. What is the value of 143 yards of tape, at 3 cents per yard? Find NO. 3, the price of one yard; then under *N.* find 143, the number of yards, against which stands \$4 29 cents, the answer.

3. What

3. What is the value of 73 bushels of corn, at 69 cents per bushel? Find NO. 69, the price of one bushel, then under *N.* find 73, the number of bushels, against which stands \$50 37 cents—the answer.

4. What is the value of 27lbs of cheese at 9 cents per pound? Find NO. 9, the given price of one pound, then under *N.* find 27, the number of pounds, against which stands \$2 43 cents—the answer.

5. Find the value of 78lbs. of butter, at 9 cents 9 mills per pound. Here 9 cents 9 mills becomes 99 mills; take NO. 99, which call mills, then under *N.* find 78, the number of pounds, against which stands 7. 72. 2; which is 7 dollars 72 cents 2 mills—the answer.

*Note*—Here NO. 99 receives the name of mills; and, according to the rule, the right hand figure of the answer receives the same name, in which the decimal point or space must be removed one figure to the left hand.

6. What is the income or expences for 365 days, at 6 cents per day? For the 6 cents take NO. 6, then under *N.* find 365, the number of days, against which stands \$21 90 cents—the answer.

7. What is the value of 750 bushels of wheat, at \$1 59 cents per bushel? For the number of bushels take NO. 75 for the two first figures, then by adding a cypher it becomes 750; then in the same table under *N.* find 159, the number of cents for one bushel, against which (remembering to add the cypher as the rule directs) stands \$1192 50 cents—the answer.

*Note*—Here the decimal space is removed one figure to the right hand.

8. What is the amount or wages for 11 days labor, at \$1 25 cents per day? For the number of days take NO. 11, then for \$1 25 cents, the price of one day, take

take *N.* 125, against which stands \$13 75 cents—the answer.

9. Find the value of 8900 bushels of wheat, at \$1 47 cents per bushel. For the two first figures take *NO.* 89, then by adding two cyphers it becomes 8900, then for \$1 47 cents take *N.* 147, which is the number of cents for one bushel, against which stands 13083 00 cents—the answer.

10. What is the value of 99lbs. of beef, at 4 cents 9 mills per pound? For 4 cents 9 mills take *NO.* 49, which receives the name of mills; then against *N.* 99, the number of pounds, stands \$4 85 cents 1 mill—the answer.

*Questions to exercise the foregoing Rules.*

What is the value of six days labor, at \$1 12 cents per day? \$6 72 cents—the answer.

What is the value of 110 puncheons of rum, at \$79 per puncheon?

\$8690 00 cents—the answer.

What is that man's expence for bitters one year, who drinks one gill per day, the bitters valued at 6 cents 2 mills per gill?

\$22 63 cents—the answer.

What is the value of 1590 yards of tape at 9 hundredths of a mill per yard?

14 cents 3 mills 1-tenth—the answer.

To find the value of any number of Goods in pounds, shillings, pence or farthings. *Rule*—Reduce the given price to the lowest term mentioned—with this price, so reduced, enter the tables and find *NO.* to agree with that price; then find *N.* the number of goods, against which stands the answer which is of the same name of the reduced number.

*Note*—When the answer is in farthings divide by 4, and the quotient will be pence. When the answer is in pence divide by 12, the quotient will be shillings.

lings. When the answer is in shillings divide by 20, and the quotient will be pounds, &c.

*Example in Farthings.*—What is the amount or value of 199 yards of tape at 3 farthings per yard? With the price of one yard enter the tables and find NO. 3, then find *N.* 199, against which stands 597 farthings, which divided by 4 gives 149 pence 1 farthing, which being divided by 12, gives 12 shillings 5 pence 1 farthing—the answer.

*Example in pence and farthings.*—What is the value of 195lbs of beef at 4 pence 2 farthings per pound? 4 pence 2 farthings becomes 18 farthings, with which enter the tables; find NO. 18, then find *N.* 195, against which is 3510 farthings—which being divided as the rule directs, gives 3 pounds 13 shillings 1 penny 2 farthings—the answer.

*Example in shillings and pence.*—What is the value of 89 bushels of wheat at 7 shillings and 11 pence per bushel? Here 7 shillings 11 pence becomes 95 pence; find NO. 95, then find *N.* 89, against which stands 8455 pence; which being divided by 12, gives 704 shillings 7 pence; the shillings being divided by 20 give 34 pounds 4 shillings and 7 pence—the answer.

*Example in pounds and shillings.*—What is the value of 365 yards of broad-cloth, at 3 pounds 17 shillings per yard? 3 pounds 17 shillings is 77 shillings; find NO. 77, then find *N.* 365, against which stands 28105 shillings, which being divided by 20 gives 1405 pounds 5 shillings—the answer.

*Example in pounds.*—What is the value of 192 acres of land, at 15 pounds per acre? Find NO. 15, then find *N.* 192, against which stands 2880—the answer.

### *To make out a Rate Bill.*

#### RULE.

Find the demand or rate on one dollar, or on one cent.

cent. Call NO. the demand, then under *N.* find the number of dollars or cents the rate is laid on, against which stands the answer, or rate required.

EXAMPLES.

1. Suppose the Legislature of a State grant a tax of three cents on a dollar, what is the demand on 123 dollars? Take NO. 3 for the number of cents on one dollar, then under *N.* find 123 for the number of dollars the tax is laid on, against which stands \$3 69 cents—the answer.

2. What is the demand on 23 dollars when a tax of 1 cent 7 mills is laid on the dollar? (Here 1 cent 7 mills becomes 17 mills.) Take NO. 17, then under *N.* find 23, against which stands 39 cents 1 mill—the answer.

3. What is the demand on 87 cents, when a tax of 7 mills are laid on the dollar? Here the demand is on cents, which are decimals of a dollar, and the demand 7 mills are decimals of a cent; therefore the right hand figure of the answer stands in the place of hundredths. Find NO. 7, which call mills, then under *N.* find 87, the number of cents the tax is laid on, against which stands 6 mills 9 hundredths—the answer.

*Note*—When the sum the tax is laid on consists of dollars and cents, the rate is found by two entries.

What is the demand on 84 dollars 74 cents when a tax of 4 cents is laid on the dollar? Find NO. 4, the demand on one dollar, then find *N.* 84, the number of dollars, against which stands \$3 36 cents; then find *N.* 74, the number of cents, against which stands 2 cents 96-hundredths—the answer.

OR THUS.

84 dollars give

74 Cents,

\$ Cts. M. 10th

3 36 0 0

0 02 9 6

---

\$3 38 9 6

their sum; which is the answer.

To

## 12. *Parker's Sure Guide.*

*To cast Simple Interest at any rate per cent. per annum, on any number of dollars, cents or mills,*

### **RULE.**

Call NO. the rate per cent. then under *N.* in the same table find the number of dollars, cents or mills the principal consists of, against which stands the interest required,

### **EXAMPLES.**

1. What is the interest of 49 dollars at 7 per cent. per annum? For the rate per cent. take NO. 7, then under *N.* find 49, the number of dollars, against which stands \$3 43 cents—the answer.

2. What is the interest of 27 dollars at 4 per cent. per annum? For the rate per cent. take NO. 4, then under *N.* find 27, against which stands \$1 08 cents—the answer.

3. What is the interest of 49 dollars at 6 per cent. per annum? For the rate per cent. take NO. 6, then under *N.* find 49, the number of dollars; under the former and opposite the latter stands \$2 94 cents—the answer.

*Note.*—When the sum required is not immediately to be found in the table, take any convenient numbers that will make that sum. For example—What is the interest of 258 dollars at 5 per cent. per annum? Here the sum is too large to be found in the table at one view, therefore divide the sum by 2, which gives 129; then under NO. 5, and opposite *N.* 129, stands \$6 45 cents, which multiplied by 2, gives \$12 90 cents—the answer.

*Note.*—When the sum consists of any large numbers the answer can be obtained by adding cyphers, thus—What is the interest of 159000 dollars, at 7 per cent. per annum? Take NO. 7 for the rate per cent. then for the three left hand figures take *N.* 159, to which add three cyphers; it then becomes 159,000; then by paying the three cyphers that were

were borrowed, the answer becomes \$11130 00 cents. So when one, two, or three of the left hand figures can be found, the answer can be obtained by addition of cyphers with accuracy, even to infinite numbers.

Or it can be found by two or more entries, thus—  
What is the interest of 123,147,123 dollars, at 7 per cent. per annum? Here take the three first figures of each period, and supply the places of the other with cyphers, then the sum of the interest will be the answer. The work will stand thus—

<i>Principal.</i>	<i>Interest.</i>
\$123000000	\$8610000 00
147000	10290 00
123	8 61
<hr/>	<hr/>
\$123147122	\$8620298 61
<hr/>	<hr/>

What is the interest of 49 cents, at 6 per cent. per annum? Find NO. 6, then under *N.* find 49, against which stands  $2\frac{94}{100}$  cents—the answer.

What is the interest of 9 mills at 7 per cent. per annum? Find NO. 7, then under *N.* find 9, against which stands mills 0 63-hundredths—the answer.

What is the interest of 99 dollars 99 cents 9 mills, at 7 per cent. per annum.

<i>Ct. M.</i>	<i>Ct. m. t. h.</i>
<i>Principal,</i> \$99 00 0	<i>Interest,</i> \$6 93 0 0 0
99 0	6 9 3 0
9	6 3
<hr/>	<hr/>
\$99 99 9	\$6 99 9 9 3

Here the principal wants but one mill of \$100, and the interest wants only the 7-hundredth of a mill to make up 7 dollars, therefore add one mill to the principal and it will stand thus :

\$ . c. m. t. h.	\$ c. m. t. h.
100 00 0 0 0	7 00 0 0 0

*To*

*To find the rebate or discount on any sum, at any rate per cent. per annum.*

*Note.*—Rebate or discount is an allowance generally made for the ready payment of money before it becomes due, or upon advancing it for notes, bills, &c. which are payable at a future day.

**RULE.**

Find the interest for the given sum, at the given rate per cent. then find the interest on the first found interest, subtract the lesser from the greater, the remainder will be the rebate, (nearly,) which sum subtract from the principal and the remainder will be the present worth.

**EXAMPLE.**

What is the rebate or discount on 100 dollars, payable one year hence, discount to be made at 6 per cent? For the rate per cent. take NO. 6, then under *N.* take 100, the number of dollars, against which stands

\$ C.  
6 00

Then against *N.* \$6 or 600 cents, stands 36 subtract.

The Rebate - - - - \$5 64 the Ans!

*To find the rebate for any number of months less than a year.*

**RULE.**

Find the rebate by the preceding rule, then divide by any even part of a year that will make the time required, and the quotient will be the rebate, which, subtracted from the principal, will give the present worth.

*A Table of aliquot or even parts, to divide by.*

To find the rebate for one month, divide by 12

To find do. for 2 do. 6

To find do. for 3 do. 4

To find do. for 4 do. 3

To find do. for 6 do. 2

**EXAMPLES.**

What is the rebate on \$100, payable 6 months hence, rebate being made at 6 per cent?

Interest



		\$ c.
Interest of \$100 is	- -	6 00
do. of \$6 is	- -	36 subtract,

Divisor 2)5 64

The rebate 2 82

3. Find the rebate of \$100, at 7 per cent. per annum, payable 6 months hence, and the present worth of the principal; under NO. 7, and opposite *N.* 100, stands 7 dollars; then against *N.* 7, stands 49 cents, which cents, subtracted from \$7, leaves \$6 51cts. the rebate per annum. By the table of even parts I find this 6 dollars and 51 cts. must be divided by 2, which gives \$3. 25cts. 5m. then \$3. 25cts. 5m. subtracted from \$6 51cts. gives \$3. 25cts. 5m. which is the rebate; then by subtracting the rebate from the principal, gives \$96 74cts. 5m. for the present worth.

*Note.*—This rule will find the rebate and present worth of any sum, within a few mills of the truth, tho' it is not introduced on a principle to serve those who are acquainted with, and have leisure to use, the Rule of Three, for this purpose.

*To Measure Superfices.*

**RULE.**

Find NO. the length, then under *N.* find the breadth, against which stands the superficial contents, which will be of the same name with NO.

**EXAMPLES.**

1. What is the superficial contents of a wall that is 14 feet by 8? Under NO. 14 find *N.* 8, against which stands 112, the superficial contents in feet.

2. What is the number of square rods contained in a piece of land in the form of an oblong square, 98 rods long, and 73 rods wide? Take NO. 98, the length, then find *N.* 73, the breadth, against which stands 7154, the number of square rods, which being divided by 160 will give the number of acres.

*Of Cubical Measure.*

**RULE.**

Call NQ. the height, *N.* the breadth, against which stands

stands the superficial contents ; then take NO. for the length and *N.* for the superficial contents, against which stands the answer.

## EXAMPLES.

What is the cubical contents of a pile of wood that is 4 feet high, 4 wide, and 8 feet long ? Find NO. 4, the height, then find *N.* 4, the breadth, against which stands 16 ; then find NO. 8, the length, and *N.* 16, against which stands 128, the answer in feet.

2. What is the cubical contents of a pile of wood that is 6 feet by 9, and 98 feet long ? NO. 6 and *N.* 9 give 54, then NO. 98 and *N.* 54 give 5292, which is feet ; then divide by 128, the number of square or cubical feet in a cord, will give the number of cords.

*Note.*—As these tables are calculated on a plan that obliges reduction to bring any odd numbers, as feet and inches, into one denomination before the superficial or cubical contents can be found. I think it will not be improper to give some short arithmetical rules for that purpose—cross multiplication, or duodecimals, I think the most proper for accomplishing my design in this business.

## NOTATION TABLE.

*F I " ' " " " V*

9 8 7 6 5 4

9 feet 8 inches 7 seconds 6 thirds 5 fourths 4 fifths, &c.

## TABLE OF PARTS.

12 fifths make 1 fourth

12 fourths 1 third

12 thirds 1 second

12 seconds 1 inch

12 inches 1 foot

*Note.*—Seconds multiplied by seconds give fourths

inches - - by seconds, thirds

inches - - by inches, seconds

feet - - by seconds, seconds

feet - - by inches, inches

feet - - by feet, feet

*Multiplication of Feet and Inches.*

1. What is the superficial contents of a board that is 9 feet 7 inches long, and 2 feet 3 inches wide ?

*F I*

**F I "** Here I begin with the left hand figure of the multiplier, and multiply the right hand figure of the multiplicand, and say 2 times 7 is 14, which is 2 above twelve, set down the 2 under the 7, then take the next figure 9 and say 2 times 9 is 18 and 1 that I carry makes 19, set it down under 9 ; then I take the right hand figure of the multiplier and say 3 times 7 make 21, which is 9 above 12, (and, remembering that inches multiplied by inches give seconds,) I set down the 9, one period to the right hand ; then I say 3 times 9 make 27, and one that I carry makes 28; which is twice 12 and 4 over, I set down the 4 and carry 2 to the next period ; then I add them up, beginning at the right hand figure, their sums, 21 **F 6 I** 9 seconds, or twelfths of an inch, the answer.

2. What is the contents of a wall that is 14 feet 3 inches long, by 6 feet 7 inches high ?

<b>F</b>	<b>I</b>	<b>"</b>	
14	3	0	
6	7	0	
85	6	0	
8	3	9	
93	9	9	Answer.

3. What is the contents of a board that is 21 feet 3 inches long, and 1 foot 9 inches wide.

<b>F</b>	<b>I</b>	
21	3	
1	9	
21	3	
16	3	
37	11	Answer.

*Of Feet Inches and Seconds.*

1. What is the contents of a board that is 16 feet 4 inches

4. What is the contents of a joist that is 7 inches by 4, and 11 feet 9 inches long?

F	I	"
11	9	0
0	7	0
<hr/>		
6	10	3
0	4	0

F 2 3 5 Answer.

What is the cubical contents of a pile of wood that is 4 feet 3 inches 2 seconds by 3 feet 9 inches 1 second, and 8 feet 2 inches long?

F	I	"	'''
4	3	2	0
3	9	1	0
<hr/>			
24	6	0	0
6	1	6	
		8	2
<hr/>			
30	8	2	2
4	3	2	0

122	8	8	8	
7	8	0	6	6
	5	1	4	4

F 130 9 10 6 10 4 Answer.

Next follows a Table of Simple Interest, which is sufficiently explained in the introduction to the Table; I have only to remark that the interest for days is set down to the nearest mill.

Next follows a Table of the several currencies of the United States, reduced to an equivalent value of federal currency, from one farthing to one hundred pounds.

The next Table shews the value of federal currency, from one cent to two thousand dollars.

These

These two last Tables are sufficient to shew the par of exchange between the currencies of each particular State, as well as that of federal currency.

*Note.*—The calculations made in these Tables are to the nearest farthing and nearest mill.

Next follows a set of Tables shewing at first view the monies of account in most foreign commercial countries—their value in federal currency—exchanges and rules of reduction.

*Note.*—These Tables sufficiently explain themselves.

Next follows a Table shewing the value of French and Spanish gold coins, (of their present standard,) reduced to an equivalent value in dollars cents and mills.

The next Table shews the value of English and Portuguese gold coins, (of their present standard,) reduced to an equivalent value in dollars cents and mills.

Next follows a Table shewing the weights of the coins of the United States.

The next Table shews the weights of several pieces of foreign gold coins—their value in dollars cents and mills.

The next Table shews the difference of pure and standard gold and silver.

A Decimal Table shewing the measures of some of the trading cities in Europe, compared with the American yard.—This Table is calculated to answer for any number or quantity of goods or cloths by observing the following

#### RULE.

As many cyphers as you add to the left hand number so many places you must move the decimal space to the right hand number, and if you add more cyphers to the left hand number than there are places of figures to the right hand, you must augment that number by adding cyphers, and removing the decimal space, as before directed.

#### EXAMPLES.

1 ell of Paris is equal to yds. 1,50					
10	-	-	-	-	15,0
100	-	-	-	-	150,

1000

1000	-	-	-	-	1500,
10000	-	-	-	-	15000,

Here it appears that one French ell is equal to 1 yard and fifty hundredths of a yard, in America ; 10 ells are equal to 15 yards, 100 ells are equal to 150 yards, &c.

1 cane of Genoa is equal to yds. 2,45

10	-	-	-	-	24,5
100	-	-	-	-	245,
1000	-	-	-	-	2450,

Here it shews that one cane of Genoa is equal to 2 yards 45 hundredths of a yard, in America, 10 are equal to 24 yards 5 tenths, 100 are equal to 245 yards, &c.

The next are four Tables of Hebrew weights, measures, and computation of money, reduced to the standard of the United States ;—perhaps, if no real benefit arises from these Tables, they may serve to expand the ideas of many.

# KEY

## TO THE CALENDAR.

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THE first Table shews the number of days from any day in any month to the same day in any other month.

### RULE.

Look at the top of the Table for the first given month, and, in the left hand column find the second given month; in an angle of meeting stands the number of days inclusive.

### EXAMPLES.

1. Let it be required to find the number of days from the first day of January to the first day of July; under January, (the first given month,) at the top of the Table, and, against July, (the second given month,) found in the left hand column, in an angle of meeting, stands one hundred and eighty one, the answer inclusive.

2. Let it be required to find the number of days from the seventh day of May, to the seventh day of December. Under May, (as before directed,) and against December stands two hundred and fourteen, the answer inclusive.

3. Find the number of days from the fourth day of July to the ninth day of December. Under July and against December stands one hundred and fifty-three, to which number add the five odd days, their sum is one hundred and fifty-eight, the answer inclusive.

*Note.*—In leap-years there must be one day added to the number found in the Table; for the 29th day of February.

Next follows a Double Table of the twelve calendar months. The left hand Table of each month contains the solar calculations, and other phenomena; the left hand column contains the days of the month, (marked days at the top;) the second column (marked D, at the top

top) contains the letters of the alphabet each day of the month (standing against it in the first column) falls on, according to the present style ; the third column (marked ☉ R. at the top) shews the time of the sun's rising ; the fourth column (marked ☉ S.) shews the time of the sun's setting ; the fifth column (marked L. D. at the top) shews the length of the day, or the time the sun continues above the horizon ; the sixth column (marked L. N.) shews the length of the night, or the time the sun continues beneath the horizon ; the seventh column (marked E. T. at the top) contains the equation of time ; the eighth column (marked R. ☉) contains the right ascension of the sun ; H. stands for hours, M. for minutes, S. for seconds ; add. shews the annexed quantity of time must be added ; sub. shews that the annexed quantity of time must be subtracted.

The second or right hand Table contains the Lunar calculations, and other phenomena ; the first column, at the left hand, (marked Y. at the top) contains the years the calculation of the calendar is made for ; the second column (marked B. at the top, and B. in the column) shews the years which are bissextile, the figures 1, 2, 3, shew the year, or years, after bissextile ; the third column (marked D. at the top) shews the dominical or Sunday letter ; the fourth column (marked E. at the top) shews the epact for each year ; the fifth column (marked G. at the top) contains the golden number ; the sixth column (marked N. ☾ at the top) contains the day of the month the new moon will fall on, according to calculation.

Next follows a Table shewing the Dominical letter for eighty years back.

Next follows a Table shewing the time of the moon's southing—the time of high and low water at the port of Sag-Harbor, for every day of the moon's age. This Table also contains the names of a number of places, alphabetically arranged, with the quantity of time annexed to be added to or subtracted from the time of high or low water found in the Table.—☾ age, stands for moon's age—☾ south, stands for the moon's southing,



ing, or coming to the meridian—H. water, for high water, L. water, for low water—A. M. for forenoon, P. M. for afternoon.

Next follows a Table shewing the names, magnitude, and right ascension of some of the principal fixed stars, whose declination is less than  $23^{\circ} 29'$  either north or south.

The next Table shews the names, magnitude, and right ascension of some of the principal fixed stars, whose declination is greater than  $23^{\circ} 29'$  north or south.

*Of the Equation of Time.*

The equation of time is a correction which added to or subtracted from the apparent time, (according to its title at the top of the column,) gives equated or mean time, or that which should be shewn by a well regulated clock or watch : apparent time is that which takes its beginning from the instant of the passage of the sun's center over the meridian of any place ; and had the sun no motion in the ecliptic, or was its motion reduced to the equator, or in right ascension uniform, it would always return to the meridian, after equal intervals of time ; but its apparent motion in the ecliptic continually varying, and its motion in right ascension being rendered further unequal, on account of the obliquity of the ecliptic to the equator, from these causes it arises that the intervals of its return to the meridian becomes unequal, and the sun will gradually come too slow or too soon to the meridian ; for an equable motion, this retardation or acceleration of the sun's coming to the meridian, is contained in the seventh column of each monthly page, (and is called the equation of time,) and when applied to the apparent time, or that deduced immediately from the sun, gives the mean or equated time, whence the error of a clock or watch may be found and corrected if required ; but if greater accuracy is required, it can be calculated, at pleasure, by observing the following

**RULE.**

Take the difference of the sun's true right ascension and its mean longitude, corrected by the equation of  
the

the equinoxes, in right ascension, and turning it into time, at the rate of  $1^h$  to  $15'$ , or  $1''$  to  $15''$ , the equation of time will be additive or subtractive as the sun's true right ascension is greater or less than its mean longitude so corrected.

*Note.*—The right ascension of the sun is the number of degrees of the equinoctial that come to the meridian with it, counted from the first point of Aries.

#### EXAMPLES.

1. Supposing that on the first day of January, it being 12 o'clock, shewn by the shadow of my dial or noon-mark,\* and the mean time was required; by inspecting the Table against the first day of January, and under E. T. stands 3 minutes and 40 seconds, which must be added, (for at the top of the column stands the word add;) the true time is 12H.  $3' 40''$ .

2. Supposing that on the first day of November, at 12 o'clock, apparent time, (or the time shewn by my dial or noon-mark,) the mean or true time was required; by inspecting the Table for the month of November, (as before directed,) I find the equation of time to be  $16'$  and  $15''$  and must be subtracted; (for at the top of the column stands the word sub.) The mean or true time is 11 o'clock  $43' 45''$ .

3. Supposing the true or mean time of the sun's rising was required on the 21st day of February; by the Table the sun rises at 6 o'clock and 39 minutes—the equation of time is 14 minutes, and over it stands the word add. The true time is 6 o'clock and 53 minutes.

*Note.*—In all cases where the time of day is obtained by an altitude of the sun's center, the equation of time must be applied according to the title, for to give the mean time.

#### *Of the Sun's Right Ascension.*

The sun's right ascension in time is useful to the practical astronomer who regulates his time-piece by sidereal time. Its use is designed, in this calendar, to compute

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\* The days proper for making a noon-mark are the 16th of April, 16th of June, 2d of September, and 24th of December.

compute the time of the fixed stars' coming to the meridian, assisted with the right ascension of the star required.

To find the time of any of the stars' coming to the meridian.

**RULE.**

Enter the Table of the stars' right ascension, and find the right ascension of the star required ; subtract the sun's right ascension for the given day, from the star's, the remainder is the hours and minutes P. M. when the star will be on the meridian ; but if the sun's right ascension be greater, and consequently cannot be subtracted, you must add 24 hours to the star's right ascension, from which sum so increased subtract the sun's right ascension, the remainder shews the time of the star's coming to the meridian in the morning of the next day ; if the remainder exceeds 12 subtract 12 from it, the remainder is the time after noon of her coming to the meridian.

**EXAMPLES.**

1. At what time will Spica be on the meridian August the 1st ?

	H.
Spica's right ascension in time	13 26
The sun's right ascension August 1, in time	8 43
	<hr/>
	4 43

The star Spica comes to the meridian at four o'clock and forty-three minutes in the afternoon.

2. At what time will the Pleiades, or seven stars, be on the meridian April the 12th ?

	H.
The seven stars' right ascension, in time	3 36
The sun's right ascension April the 12th	1 20 sub.
	<hr/>
	2 16

The seven stars will be on the meridian at 16' past two o'clock in the afternoon.

3. At what time will Sirius or the dog-star be on the meridian May 20th ?

Sirius

Sirius right ascension	- - - -	H. 6 37
Sun's do. May 20th	- - - -	3 45 sub.
		<hr/> 2 52

Therefore the star Sirius will be on the meridian at 2 o'clock and 52 minutes, in the afternoon of May the twentieth.

4. At what time will Procyon be on the meridian February the 10th?

Procyon's right ascension, in time		H. 7 30
	add	24
		<hr/> 31 30
Sun's do. February 10th,		21 33 sub.
		<hr/> 9 57

The star Procyon comes to the meridian at 9H. 57' in the morning, February the 11th.

*To find the day of the month the new moon will fall on for any year mentioned in the calendar.*

#### RULE.

Find the given month in the lunar Table and against the year in the column, marked N. D, in an angle of meeting, stands the day of the month required.

#### EXAMPLES.

1. Find the day of the month the new moon will fall on for the month of January in the year 1812. Opposite the year 1812, in the lunar Table for the month of January, and in the column marked N. D at the top, in an angle of meeting, stands 13, which shews that it is new moon on the 13th of January, that year.

2. Find the new moon for the month of October in the year 1810. Enter the Table for the month of October, (as before directed,) and you will find the number 28, which shews that it will be new moon on the 28th of October, that year.

*To find the moon's age on any day of the month.*

#### RULE.

Subtract the day of her change from thirty; to the remainder

remainder add the day of the month, their sum will be her age if it does not exceed thirty ; but if it does, subtract 30 from it, and the remainder will be her age.

EXAMPLES.

1. Find the moon's age the tenth day of December 1813.

The given sum	30
The day of her change	22 sub.

—  
8

The day of the month 10 add

—  
The moon's age 18 days.

2. Find the moon's age on the twelfth day of March, 1810.

The given sum	30
Day of her change	5 sub.

—  
25

The day of the month 12 add

—  
37

Subtract 30

—  
7

Moon's age 7 days.

3. Find the moon's age on the 1st day of June, 1811.

Given sum	30
Day of her change	21 sub.

—  
9

Day of the month 1 add

—  
10

Moon's age 10 days.

*To find the time of the moon's coming to the meridian, and consequently the time of high and low water for every day of her age, at the Port of Sag-Harbor.*

RULE.

Find the moon's age, as in the preceding examples ; then find her age, by inspection, in the Table of tides, against which (in the column marked ) south. at the top)

top) stands the hours and minutes of time she comes to the meridian, or souths for that day ; then, continuing, to the right hand stands the time of high and low water, in their respective columns.

## EXAMPLES.

1. Find the time of the moon's southing, or coming to the meridian—the time of high and low water at the Port of Sag-Harbor, on the 30th day of May, in the year 1811.

Given sum 30  
Day of her change 22 sub.

—  
8

Day of the month 30 add

—  
38

Subtract 30

—

Moon's age 8 days.

Against 8 days in the Table of tides stands 6H. 29' P. M. the time of her coming to the meridian—3H. 40' P. M. for the time of high water—9H. 52' P. M. the time of low water.

2. Find the time of the moon's southing, or coming to the meridian—the time of high and low water on the 4th day of January, 1811.

Given sum 30  
Day of her change 24 sub.

—  
6

Day of the month 4 add

—

Moon's age 10 days.

Against 10 days in the Table of tides stands 8H. 7' P. M. for the time of her southing—6H. 14' P. M. for the time of high water—0H. 26' A. M. for low water ; which is in the morning of the 5th day.

3. Find the time of the moon's southing, or coming to the meridian—the time of high and low water at Dering's Harbor, (Shelter-Is'land,) on the 4th day of July, 1812.

Given

	Given sum	30
Day of her change	8 sub,	
		22
Day of the month	4 add	

Moon's age 26 days.

Against 26 days in the Table of tides stands 9H. 9' A. M. for the time of her southing—then in the column for H. water stands 7H. 33', to which add one hour, their sum gives 8H. 33' A. M. the time of high water—and 2H. 45' P. M. for the time of low water.

*To find the day of the week any day of a given month falls on.*

**RULE.**

Enter the lunar Table for the given month, and against the year stands the dominical letter, in its column. Call the letter thus found, Sunday, then enter the solar Table and find the same letter or letters, against which (in the column marked *days* at the top) stands the day of the month that Sunday will fall on for that year; then count on numerically from Sunday to the day required, (as in a common Almanack.)

**EXAMPLES.**

1. What day of the week will the first day of January fall on, in the year 1809? (which is the first day this calendar commences.) In the lunar Table for the month of January, against the year 1809, stands the letter A. which call Sunday; then cast the eye to the left hand, in the solar table, and there find the same letter, and against it stands the 1st day of the month, which is Sunday—the Answer.

2. What day of the week will the 4th day of July fall on in the year 1814? Enter the lunar table for the month of July, and against the year 1814 stands B, which call Sunday (as before directed) then in the solar table, against B. (or Sunday) stands the 3d day of the month; then counting on to the 4th I find the answer to be Monday.

3. What

3. What day of the month will the second Thursday of May fall on, in the year 1819?—13th, the Answer.

4. What day of the week will the 31st day of December fall on, in the year 1828? (which is the last day of the calculation in this calendar)—Wednesday, the Answer.

*To find the day of the week any day of a given month has fell on, since the commencement of the present style.*

#### RULE.

Enter the table of past time, find the year, and against it in its column stands the dominical letter; then enter the solar table, for the given month, and find the same letter, which call Sunday; then say Monday, Tuesday, &c. till you come against the day of the month required—you will then have the day of the week.

*Note.*—In Bissextile, or Leap-years, we have two dominical letters. They are placed together in this table. You must take the left hand letter from the first day of January to the last day of February, and the right hand letter from the first day of March to the year's end.

#### EXAMPLES.

1. Find the day of the week the first blood was shed in the Revolutionary War; it being on the 19th day of April, 1775. Against the year 1775 stands the letter A. then enter the solar table for the month of April, and the letter A. is found to stand against the 16th day of the month (which was Sunday) then counting on to the 19th stands Wednesday, the Answer.

2. What day of the week did the ever-memorable Congress declare the Independence and sovereignty of the United States; it being on the 4th day of July, 1776? Against the year 1776 stands two dominical letters, which shew that year was Bissextile or Leap-year. But as the month of July is after February, take the right hand letter, which is F. then in the solar table for the month of July, find the same letter F. against which stands the 7th day of the month, which was Sunday; then counting back to the fourth, I find it to be Thursday—the Answer.

3. What



3. What day of the week was Burgoyne taken ; it being on the 17th of October, 1777 ?—Friday, the Answer.

4. What day of the week did the American Embargo commence, it being on the 22d day of December, 1807 ?—Tuesday, the Answer.

5. What day of the week was the city of New-London burnt by the traitor Arnold, it being on the 6th day of September, in the year 1781 ?—Thursday, the Answer.

*To find the day of the week any day of a given month has fell on, previous to the new style.*

RULE.

Add eleven days to the day given according to old style, that reduces it to new style ; then find the day of the week (as has been given in the preceeding examples) and you will have the day correct.

EXAMPLES.

1. Find the day of the week the illustrious Washington was born, it being on the 11th day of February, in the year 1732, old style ?

11th day, old style,

11 days add,

---

22d new style.

Then against the year 1732 stand F. and E. (which shew that it was Leap-year) and according to the preceding Rule, take the left hand letter for the month of February, which is F. then enter the solar table for the month of February, and find the same letter, which stands against the 17th day of the month, which is Sunday ; then looking down the column to the 22d day, the Answer is Friday.

2. What day of the week, did the old style cease, it being the 2d day of September, 1752 ?

2d day, old style,

11

---

13th, new style.

Against the year 1752 stands two dominical letters—take A. then in the table (as before directed) I find the

the letter A. to stand against the 10th day of the month; counting on to the 13th day, I find the answer to be Wednesday.

3. What day of the week did the new, or present style commence, it being on the 3d day of September, 1752?

3d day, old style,  
11 days add,

—  
14th new style.

Thursday, the Answer.

Supposing that I was born on the 5th of September, 1750, old style, the day of the week is required.

5th old style,  
11 days add,

—  
16th new style.

Saturday, the Answer.

*Note.*—To convert new style into old is done by a contra method, viz. subtraction instead of addition.—For *Example*, supposing the 27th day of any month, according to new style, was required to be converted into old style, what day of the month would it be?

27th new style,  
11 days subtract,

—  
16th the Answer.

Here it is evident the 27th day new style, is the same as the 16th old style; therefore the day of the month is altered, but not the day of the week.

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## OBSERVATIONS, &c.

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### OF TIDES.

THE Tide is that motion of the sea by which the waters rise and fall; the cause of which is occasioned by

by the attraction of the two great luminaries, the Sun and the Moon ; for there is a principle in all bodies within the solar system by which they attract each other, in proportion to the squares of their distances. The moon being the principal in this cause, which is evident on account of the tides always following her apparent motion. The sun has some power of attraction on the waters, which evidently appears ; for when they are both on the meridian, either in conjunction or opposition ; that is, at full or change of the moon, their joint attraction conspires to raise the tides higher than ordinary, and are called *spring tides*. The tides are also deterred when the great luminaries are quartile, or  $90^{\circ}$  asunder, which happens about the first and second quarters of the moon, and is called *neap tides*. The tides do not always rise at certain or equal intervals of time ; for there seems to be a contrast from the first quarter to the full, and from the second or last quarter to the change, in which case the tides are deterred by one whilst they are raised by the other, and consequently take up more time, which make the intervals of their return unequal. The tide is, however, raised sooner, and takes up less time for its operation, when the attraction of powers have been united, and co-operate jointly in the attraction. This happens from the change to the first quarter, and from the full to the second or last quarter of the moon.

What occasions the difference of high water at two places which are both situated on one meridian, will be accounted for when we consider that their progress is checked or obstructed by land lying in their way, affected by shoals, surrounding islands, striking against capes or headlands, running up long and winding rivers, which oblige them to take long circuits, and various directions to come to the level. The tides rising higher in bays than in the open sea, is occasioned by its striking against the contracting banks, accumulates the water, which is evident by their rising to the enormous height of sixty feet in the Bay of Fundy. The tides are higher than ordinary when the moon is in her perigee, or nearest approach to the earth. The tides  
are

are also higher twice in a year, which happens about the vernal and autumnal equinoxes, and the neap tides less ; which is occasioned by the sun being nearer to the earth at these times of the year, and consequently the power of attraction is greater, which raises the water higher ; and those waters which are  $90^{\circ}$  distant, must subside in the same proportion.

The table of tides in this calendar is calculated on a supposition of the moon's changing directly on the meridian, and cannot fail of being tolerable exact ; or at least if the moon should happen to change at  $90^{\circ}$  distant (which is the greatest distance she can possibly change from the meridian) it would affect the tide only a few minutes. Any gentleman, therefore, can find the computed time of high water, in any harbor, bay, or creek, by observing the time of high water on any day of the moon's age, and noting the difference between the observed place and the time given in the table for the same day. The difference thus found must be added to or subtracted from (as the case requires) for every day of her age, and you will have the time correct, unless the tide is acted upon by high winds, or some unknown causes.

#### *OF WINDS AND VAPOR.*

Wind is a current of air put in motion by the heat of the sun, that amazing globe and fountain of light of the whole solar system, whose rays upon the earth cause vapors continually to ascend, which must partake of the same qualities of certain parts from whence they are evaporated. This body, so collected, forms what we call our atmosphere or air, which completely surrounds the earth, and is extended to a distance of some miles above its surface ; and is liable to be put in motion by various causes, it being a fine elastic fluid, and is found by experience capable of being rarefied by heat or condensed by cold ; therefore an alteration of heat or cold in any part of the atmosphere, the air in that part will be put in motion by its being rarefied or condensed, and the surrounding air will be rushing in to restore itself to its former state, or come to an equilibrium.

Vapors

Vapors rising from the sea and carried over low lands, and compelled to mount up with the stream of the air, to the tops of mountains, where the water precipitates, gleeing down the caverns and gathering into basons, which being filled begin to run over, and form subterraneous passages through the earth, breaking out in springs by the side of hills, and forming rivulets, rivers, &c. are again conducted back to the sea from whence they came.

Besides the above causes the air or atmosphere may be put in motion by the elastic vapors forced from the bowels of the earth, by subterraneous heats, and condensed by whatever causes in the atmosphere. A mixture of effluvia of different qualities in the air, may by rarefaction, fermentation, &c. produce winds and other effects, like those resulting from the combination of some chemical liquors ; and that such things happen, we are assured from the nature of meteors, lightning, eruption of volcanoes and earthquakes in distant places. Winds may be propagated to remoter countries—the elasticity of the air is of great moment, and it is reciprocally as the pressure ; so that the incumbent weight being diminished by the attraction, the air underneath will be much expanded. These and such like causes will make the tides in the air to be much greater than those of the ocean ; and there is no doubt but that the same wise Being, who contrived the flux, and reflux of the seas, to secure that vast collection of water from stagnation and corruption, has ordered this ebb and flood of the air of our atmosphere, with the like good design ; that is, to preserve it sweet and a brisk temper of this fluid so necessary to life by a continual circulation.

The changes of our atmosphere at high water, new and full moon, the equinoxes, &c. must occasion alterations in all animal bodies ; for all living creatures require air of a determined gravity to perform respiration easily ; for it is by its weight that this fluid insinuates itself into the cavity of the breast and lungs. By a slow circulation the secretion of the spirits is diminished ; and by the want of the force of elasticity and gravity,

gravity, the juices begin to ferment, change the union, of their parts, break their canals, and diseases follow.

*OF the change and alteration of the weather, from the rising and setting of the Sun.*

#### **SIGNS OF RAIN FROM THE RISING OF THE SUN.**

1. If before the sun appears, its rising beams strike the air with a crimson hue, expect wind and rain about ten o'clock ; for the air is full of vapors and exhalations.

2. When the sun rises clear, and several little black clouds are ready to receive it, expect a showery day.

3. When the sun riseth broad and glimmering, and is presently received into a black cloud, the morning cold ariseth and takes up with it the vapors, which fall in great rains.

#### **SIGNS OF RAIN FROM THE SETTING OF THE SUN.**

1. When the sun sets broad and glimmering, it sets in thin vapors, which the next day will fall in misling rain.

2. When the sun goes down wading or forcing (as some call it) the vapors are drawn down with the evening cold, and the next morning cold condenseth them into clouds, which fall in rain about twelve o'clock.

3. When the sun setteth in a black waterish cloud, the vapors are condensed by the evening cold, and the morning cold raiseth them up in the cold regions of the air, where they swim until nine or ten o'clock, and then their own weight causeth them to break and fall in rain.

#### **SIGNS OF FAIR WEATHER FROM THE RISING OF THE SUN.**

1. If the sun rises little and fiery, and the vapors draw down to the waters, leaving a dew upon the ground, those vapors about ten o'clock are rarefied into wind, which continues to blow till about three o'clock in the afternoon.

2. If the sun rises in thick clouds, and appears not until ten o'clock, expect a clear afternoon.

3. If

3. If the sun appears not until twelve o'clock, expect not only a clear afternoon, but a dry season; for the morning cold riseth not.

SIGNS OF FAIR WEATHER FROM THE SETTING OF THE SUN.

1. When the sun sets clear, and appears little and fiery, the vapors are all spent, and you may expect a fair and hot day to follow.

2. When, after the sun is set, its beams strike the air with a crimson red, you may expect that the next day will be fair and windy.

3. When the sun sets through thin clouds, sharp edged like swords, these are little wind-helms, and you may expect a clear and windy day to follow.

OF YEARS, MONTHS, &c.

A Year is the principal part of time, by which not only the ages of men and other things, but also the times of many actions in the world, their progress, continuance, and intervals are measured; and is the periodical revolution of a great circle of months and days, in which the four seasons of Spring, Summer, Autumn and Winter, are after one revolution of the sun, ordained to return to their courses.

But there are divers sorts of years, as saith the ancients, according to divers nations which are different from one another, reduced to the rule of the celestial motions. The year is divided into astronomical and political parts.

The astronomical year is of two fold; that is, *solar* and *lunar*.

The solar year is the time in which the sun, by his proper motion, departing from the point of the ecliptic, returns to the same again. And this is called either *natural* or *sidereal*.

The natural or tropical year is the space of time in which the sun departeth out of the tropical, equinoctial, or solstitial point, and running from the ecliptic returneth to the same again. This natural or tropical  
year

year is also two fold, mean or equal, and true also called unequal.

The mean or equal tropical year contains 365 days, 5 hours, 49 minutes, and 15 seconds.

The true or unequal tropical year is sometimes more and sometimes less than the equal, by 6 or 7 minutes. So it increaseth or decreaseth according to the swift or slow progress of the equinoctial or solstitial points. The sidereal year is the space of time in which the sun returns to the same star from whence he departed, and is 365 days, 6 hours, 9 minutes; but in the second there is a wide difference in writers on the subject.

The lunar year is likewise two fold the common which is 12 moons, or 354 days, 8 hours, &c. the embolism of which is 13 moons, or lunations, containing 383 days, 21 hours, &c.

The political or civil years are such as are commonly used for the distinction of time, wherein respect is had rather to the motion of the sun or moon only, or to them both together, according to the custom of divers nations.

The julian, or old Roman year, consisting of 365 days and 6 hours; this julian account, or year, is used by the Muscovites or Syrians and Abyssinians, though the name of their months differ. It is held to begin (with the vulgar) on the first day of January, but according to the state accounts, the year begins not till the 26th of March, at which time they alter the date of the year; as for example, the first day of January next will be reckoned the first day of the year 1809, but because the state first account begins not till the 26th of March, they commonly wrote the date double, 1808-9, from the first of January to the 25th of March, after which they wrote only 1809.

The gregorian or new Roman year, so called because mended by Pope Gregory VIII. consists of 365 days 5 hours 49 minutes and 12 seconds. It begins on our 22d of December, beginning 10 days before the julian, and is received in all countries owning the authority of the See of Rome, and in some protestant countries.

The



The months by which we measure the year, are of two sorts, viz. astronomical or natural are according to the motion of the sun and moon, and are either solar or lunar. The solar is the span of time in which the sun runs through the zodiac, of which there are two sorts, mean or equal, true or unequal. An equal solar month is the time in which the sun by his mean motion goeth a twelfth part of the zodiac, and is always thirty days ten hours twenty-nine minutes five seconds, &c. But the true, or apparent, is according to the motion of the sun through the zodiac; when he is in or near his apogæon the months are longer, but when he is in or near his perigeum they are shorter. Lunar months are referred to the moon's motion, and are chiefly three-fold, viz. first, periodical, which is the space of time in which the moon by her mean motion goeth through the zodiac, and is about 27 days 8 hours; secondly, synodical, which is the space of time from one conjunction to another, being performed, according to the moon's mean motion, in twenty-nine days twelve hours forty-four minutes and four seconds, but, according to the moon's true motion, it is sometimes greater or lesser by about twelve hours; thirdly, the month illumination or apparition is said to be twenty-eight days, or four weeks, it being the longest time that the moon is to be seen between change and change; lastly, the political month is civil and usual, as every nation best pleaseth, which differs both in proportion and name.

## WEIGHTS AND MEASURES.

### TROY WEIGHT.

24 grains ( <i>grs.</i> )	make 1 penny-weight,	<i>grs.</i>
20 penny-weights	1 ounce,	<i>oz.</i>
12 ounces	1 pound,	<i>lb.</i>
		<i>As.</i>

*As used by Refiners.*

24 blanks	make 1 perrot
20 perrots	1 mite.
20 mites	1 grain.

*As used by Apothecaries.*

20 grains (gr.)	make 1 scruple,
3 scruples	1 dram,
8 drams	1 ounce,
12 ounces	1 pound

3  
3  
3  
lb

**AVOIRDUPOIS WEIGHT.**

16 drams (dr.)	make 1 ounce,	oz.
16 ounces	1 pound,	lb.
28 pounds	$\frac{1}{4}$ hundred weight,	qr.
4 quarters, or 112 lbs.	1 hundred weight,	cwt.
20 hundred weight	1 ton,	T.
19 $\frac{1}{2}$ hundred weight	one fother of lead.	

*Note.*—By this weight are weighed all goods of a coarse and drossy nature.

**WINE MEASURE.**

4 gills (gl.)	make 1 pint,	pt.
2 pints	1 quart,	qt.
4 quarts	1 gallon,	gal.
10 gallons	1 anker,	ank.
18 do.	1 runlet,	run.
31 $\frac{1}{2}$ do.	1 barrel,	bar.
42 do.	1 tierce,	tier.
63 do.	1 hogshead,	hhd.
2 hogsheads	1 pipe, or butt,	p. or b.
2 pipes, or butts,	1 tun,	T.

*Note.*—All spirits, wines, and oil, are measured by this measure.

**BEER MEASURE.**

2 pints	make 1 quart,	qt.
4 quarts	1 gallon,	gal.
3 gallons of ale, or }	1 firkin,	fir.
9 gallons of beer, }		
18 gallons	1 kilderkin,	kil.
		36 do.

36 do.	1 barrel,	bbl.
54 do.	1 hoghead,	hhd.
2 hogheads	1 butt,	B.

DRY MEASURE.

2 pints (pts.) make	1 quart,	qt.
2 quarts	1 pottle,	pot.
8 quarts	1 peck,	pk.
4 pecks	1 bushel,	bu.
4 bushels	1 strike,	str.
2 strikes	1 coom,	cm.
4 cooms	1 chaldron,	ch.
40 bushels	1 wey, or load,	w. or l.
2 weys, or loads,	1 last,	La.

CLOTH MEASURE.

2½ inches (in.) make	1 nail,	na.
4 nails	¼ yard,	qr.
4 quarters	1 yard,	yd.
3 do.	1 ell Flemish,	E. Fl.
5 do.	1 ell English,	E. E.
6 do.	1 ell French,	E. Fr.

LONG MEASURE.

3 barley corns (b. c.) make	1 inch,	in.
12 inches	1 foot,	ft.
16½ feet	1 rod, pole, or perch,	rd.
6 do.	1 fathom,	fath.
66 do.	1 chain,	ch.
40 rods	1 furlong,	fur.
8 furlongs	1 mile,	m.
3 miles	1 league,	lea.
60 geographical miles, or }	1 degree,	deg.
69½ statute miles, (nearly) }		

TIME.

60 seconds (sec.) make	1 minute,	m.
60 minutes	1 hour,	h.
24 hours	1 day,	d.
365 days	1 solar year,	s. y.
366 do.	1 leap year,	l. y.
100 years	1 century,	cen.

Circular

*CIRCULAR MOTION.*

60 seconds (")	make	1 minute,	<i>℞</i>
60 minutes		1 degree,	<i>°</i>
30 degrees		1 sign	<i>♊</i>
12 signs, or 360 degrees,		the great circle of the zodiac.	

*PAPER, PARCHMENT, &c.*

24 sheets	make	1 quire,	<i>q.</i>
10 quires		1 token,	<i>tn.</i>
20 do.		1 ream,	<i>rm.</i>
10 reams		1 bale,	<i>ba.</i>
5 dozen of skins		1 roll of parchment.	

*Particulars.*

12 single things	1 dozen,
12 dozen	1 gross,
12 gross	1 great gross,
20 single things	1 score,
5 score	1 hundred.

*SOLID MEASURE.*

231 solid inches	1 wine gal.
282 do. do.	1 beer do.
2150,4 do. do.	1 bushel,
1728 do. do.	1 solid foot.
40 feet of round, or	} 1 ton, or load.
50 feet of square timber,	

*FEDERAL MONEY.*

10 hundredths	make	1 tenth,
10 tenths		1 mill,
10 mills		1 cent,
10 cents		1 dime,
10 dimes		1 dollar,
10 dollars		1 eagle.

*Note.*—Accounts are generally kept in dollars and cents, omitting eagles and dimes, for eagles stand in the place of tens for dollars, and dimes in the place of tens for cents.

# NO. 1.

N	N	N	N	N
1	0 1	11 0 41	81 0 81	121 1 21
2	0 2	12 0 42	82 0 82	122 1 22
3	0 3	13 0 43	83 0 83	123 1 23
4	0 4	14 0 44	84 0 84	124 1 24
5	0 5	15 0 45	85 0 85	125 1 25
6	0 6	16 0 46	86 0 86	126 1 26
7	0 7	17 0 47	87 0 87	127 1 27
8	0 8	18 0 48	88 0 88	128 1 28
9	0 9	19 0 49	89 0 89	129 1 29
10	0 10	20 0 50	90 0 90	130 1 30
11	0 11	21 0 51	91 0 91	131 1 31
12	0 12	22 0 52	92 0 92	132 1 32
13	0 13	23 0 53	93 0 93	133 1 33
14	0 14	24 0 54	94 0 94	134 1 34
15	0 15	25 0 55	95 0 95	135 1 35
16	0 16	26 0 56	96 0 96	136 1 36
17	0 17	27 0 57	97 0 97	137 1 37
18	0 18	28 0 58	98 0 98	138 1 38
19	0 19	29 0 59	99 0 99	139 1 39
20	0 20	30 0 60	100 1 00	140 1 40
21	0 21	31 0 61	101 1 01	141 1 41
22	0 22	32 0 62	102 1 02	142 1 42
23	0 23	33 0 63	103 1 03	143 1 43
24	0 24	34 0 64	104 1 04	144 1 44
25	0 25	35 0 65	105 1 05	145 1 45
26	0 26	36 0 66	106 1 06	146 1 46
27	0 27	37 0 67	107 1 07	147 1 47
28	0 28	38 0 68	108 1 08	148 1 48
29	0 29	39 0 69	109 1 09	149 1 49
30	0 30	40 0 70	110 1 10	150 1 50
31	0 31	41 0 71	111 1 11	151 1 51
32	0 32	42 0 72	112 1 12	152 1 52
33	0 33	43 0 73	113 1 13	153 1 53
34	0 34	44 0 74	114 1 14	154 1 54
35	0 35	45 0 75	115 1 15	155 1 55
36	0 36	46 0 76	116 1 16	156 1 56
37	0 37	47 0 77	117 1 17	157 1 57
38	0 38	48 0 78	118 1 18	158 1 58
39	0 39	49 0 79	119 1 19	159 1 59
40	0 40	50 0 80	120 1 20	160 1 60
				365 3 65

# NO. 2.

N	N	N	N	N
1 0 2	41 0 82	81 1 62	121 2 42	161 3 22
2 0 4	42 0 84	82 1 64	122 2 44	162 3 24
3 0 6	43 0 86	83 1 66	123 2 46	163 3 26
4 0 8	44 0 88	84 1 68	124 2 48	164 3 28
5 0 10	45 0 90	85 1 70	125 2 50	165 3 30
6 0 12	46 0 92	86 1 72	126 2 52	166 3 32
7 0 14	47 0 94	87 1 74	127 2 54	167 3 34
8 0 16	48 0 96	88 1 76	128 2 56	168 3 36
9 0 18	49 0 98	89 1 78	129 2 58	169 3 38
10 0 20	50 1 00	90 1 80	130 2 60	170 3 40
11 0 22	51 1 02	91 1 82	131 2 62	171 3 42
12 0 24	52 1 04	92 1 84	132 2 64	172 3 44
13 0 26	53 1 06	93 1 86	133 2 66	173 3 46
14 0 28	54 1 08	94 1 88	134 2 68	174 3 48
15 0 30	55 1 10	95 1 90	135 2 70	175 3 50
16 0 32	56 1 12	96 1 92	136 2 72	176 3 52
17 0 34	57 1 14	97 1 94	137 2 74	177 3 54
18 0 36	58 1 16	98 1 96	138 2 76	178 3 56
19 0 38	59 1 18	99 1 98	139 2 78	179 3 58
20 0 40	60 1 20	100 2 00	140 2 80	180 3 60
21 0 42	61 1 22	101 2 02	141 2 82	181 3 62
22 0 44	62 1 24	102 2 04	142 2 84	182 3 64
23 0 46	63 1 26	103 2 06	143 2 86	183 3 66
24 0 48	64 1 28	104 2 08	144 2 88	184 3 68
25 0 50	65 1 30	105 2 10	145 2 90	185 3 70
26 0 52	66 1 32	106 2 12	146 2 92	186 3 72
27 0 54	67 1 34	107 2 14	147 2 94	187 3 74
28 0 56	68 1 36	108 2 16	148 2 96	188 3 76
29 0 58	69 1 38	109 2 18	149 2 98	189 3 78
30 0 60	70 1 40	110 2 20	150 3 00	190 3 80
31 0 62	71 1 42	111 2 22	151 3 02	191 3 82
32 0 64	72 1 44	112 2 24	152 3 04	192 3 84
33 0 66	73 1 46	113 2 26	153 3 06	193 3 86
34 0 68	74 1 48	114 2 28	154 3 08	194 3 88
35 0 70	75 1 50	115 2 30	155 3 10	195 3 90
36 0 72	76 1 52	116 2 32	156 3 12	196 3 92
37 0 74	77 1 54	117 2 34	157 3 14	197 3 94
38 0 76	78 1 56	118 2 36	158 3 16	198 3 96
39 0 78	79 1 58	119 2 38	159 3 18	199 3 98
40 0 80	80 1 60	120 2 40	160 3 20	200 4 00

# NO. 3.

N			N			N			N			N		
1	0	3	41	1	23	81	2	43	121	3	63	161	4	83
2	0	6	42	1	26	82	2	46	122	3	66	162	4	86
3	0	9	43	1	29	83	2	49	123	3	69	163	4	89
4	0	12	44	1	32	84	2	52	124	3	72	164	4	92
5	0	15	45	1	35	85	2	55	125	3	75	165	4	95
6	0	18	46	1	38	86	2	58	126	3	78	166	4	98
7	0	21	47	1	41	87	2	61	127	3	81	167	5	01
8	0	24	48	1	44	88	2	64	128	3	84	168	5	04
9	0	27	49	1	47	89	2	67	129	3	87	169	5	07
10	0	30	50	1	50	90	2	70	130	3	90	170	5	10
11	0	33	51	1	53	91	2	73	131	3	93	171	5	13
12	0	36	52	1	56	92	2	76	132	3	96	172	5	16
13	0	39	53	1	59	93	2	79	133	3	99	173	5	19
14	0	42	54	1	62	94	2	82	134	4	02	174	5	22
15	0	45	55	1	65	95	2	85	135	4	05	175	5	25
16	0	48	56	1	68	96	2	88	136	4	08	176	5	28
17	0	51	57	1	71	97	2	91	137	4	11	177	5	31
18	0	54	58	1	74	98	2	94	138	4	14	178	5	34
19	0	57	59	1	77	99	2	97	139	4	17	179	5	37
20	0	60	60	1	80	100	3	00	140	4	20	180	5	40
21	0	63	61	1	83	101	3	03	141	4	23	181	5	43
22	0	66	62	1	86	102	3	06	142	4	26	182	5	46
23	0	69	63	1	89	103	3	09	143	4	29	183	5	49
24	0	72	64	1	92	104	3	12	144	4	32	184	5	52
25	0	75	65	1	95	105	3	15	145	4	35	185	5	55
26	0	78	66	1	98	106	3	18	146	4	38	186	5	58
27	0	81	67	2	01	107	3	21	147	4	41	187	5	61
28	0	84	68	2	04	108	3	24	148	4	44	188	5	64
29	0	87	69	2	07	109	3	27	149	4	47	189	5	67
30	0	90	70	2	10	110	3	30	150	4	50	190	5	70
31	0	93	71	2	13	111	3	33	151	4	53	191	5	73
32	0	96	72	2	16	112	3	36	152	4	56	192	5	76
33	0	99	73	2	19	113	3	39	153	4	59	193	5	79
34	1	02	74	2	22	114	3	42	154	4	62	194	5	82
35	1	05	75	2	25	115	3	45	155	4	65	195	5	85
36	1	08	76	2	28	116	3	48	156	4	68	196	5	88
37	1	11	77	2	31	117	3	51	157	4	71	197	5	91
38	1	14	78	2	34	118	3	54	158	4	74	198	5	94
39	1	17	79	2	37	119	3	57	159	4	77	199	5	97
40	1	20	80	2	40	120	3	60	160	4	80	200	6	00

# NO. 4.

N	N	N	N	N
1 0 4	41 1 64	81 3 24	121 5 84	161 6 44
2 0 8	42 1 68	82 3 28	122 4 88	162 6 48
3 0 12	43 1 72	83 3 32	123 4 92	163 6 52
4 0 16	44 1 76	84 3 36	124 4 96	164 6 56
5 0 20	45 1 80	85 3 40	125 5 00	165 6 60
6 0 24	46 1 84	86 3 44	126 5 04	166 6 64
7 0 28	47 1 88	87 3 48	127 5 08	167 6 68
8 0 32	48 1 92	88 3 52	128 5 12	168 6 72
9 0 36	49 1 96	89 3 56	129 5 16	169 6 76
10 0 40	50 2 00	90 3 60	130 5 20	170 6 80
11 0 44	51 2 04	91 3 64	131 5 24	171 6 84
12 0 48	52 2 08	92 3 68	132 5 28	172 6 88
13 0 52	53 2 12	93 3 72	133 5 32	173 6 92
14 0 56	54 2 16	94 3 76	134 5 36	174 6 96
15 0 60	55 2 20	95 3 80	135 5 40	175 7 00
16 0 64	56 2 24	96 3 84	136 5 44	176 7 04
17 0 68	57 2 28	97 3 88	137 5 48	177 7 08
18 0 72	58 2 32	98 3 92	138 5 52	178 7 12
19 0 76	59 2 36	99 3 96	139 5 56	179 7 16
20 0 80	60 2 40	100 4 00	140 5 60	180 7 20
21 0 84	61 2 44	101 4 04	141 5 64	181 7 24
22 0 88	62 2 48	102 4 08	142 5 68	182 7 28
23 0 92	63 2 52	103 4 12	143 5 72	183 7 32
24 0 96	64 2 56	104 4 16	144 5 76	184 7 36
25 1 00	65 2 60	105 4 20	145 5 80	185 7 40
26 1 04	66 2 64	106 4 24	146 5 84	186 7 44
27 1 08	67 2 68	107 4 28	147 5 88	187 7 48
28 1 12	68 2 72	108 4 32	148 5 92	188 7 52
29 1 16	69 2 76	109 4 36	149 5 96	189 7 56
30 1 20	70 2 80	110 4 40	150 6 00	190 7 60
31 1 24	71 2 84	111 4 44	151 6 04	191 7 64
32 1 28	72 2 88	112 4 48	152 6 08	192 7 68
33 1 32	73 2 92	113 4 52	153 6 12	193 7 72
34 1 36	74 2 96	114 4 56	154 6 16	194 7 76
35 1 40	75 3 00	115 4 60	155 6 20	195 7 80
36 1 44	76 3 04	116 4 64	156 6 24	196 7 84
37 1 48	77 3 08	117 4 68	157 6 28	197 7 88
38 1 52	78 3 12	118 4 72	158 6 32	198 7 92
39 1 56	79 3 16	119 4 76	159 6 36	199 7 96
40 1 60	80 3 20	120 4 80	160 6 40	200 8 00



# NO. 5.

N	N	N	N	N
1 0 5	41 2 05	81 4 05	121 6 05	161 8 05
2 0 10	42 2 10	82 4 10	122 6 10	162 8 10
3 0 15	43 2 15	83 4 15	123 6 15	163 8 15
4 0 20	44 2 20	84 4 20	124 6 20	164 8 20
5 0 25	45 2 25	85 4 25	125 6 25	165 8 25
6 0 30	46 2 30	86 4 30	126 6 30	166 8 30
7 0 35	47 2 35	87 4 35	127 6 35	167 8 35
8 0 40	48 2 40	88 4 40	128 6 40	168 8 40
9 0 45	49 2 45	89 4 45	129 6 45	169 8 45
10 0 50	50 2 50	90 4 50	130 6 50	170 8 50
11 0 55	51 2 55	91 4 55	131 6 55	171 8 55
12 0 60	52 2 60	92 4 60	132 6 60	172 8 60
13 0 65	53 2 65	93 4 65	133 6 65	173 8 65
14 0 70	54 2 70	94 4 70	134 6 70	174 8 70
15 0 75	55 2 75	95 4 75	135 6 75	175 8 75
16 0 80	56 2 80	96 4 80	136 6 80	176 8 80
17 0 85	57 2 85	97 4 85	137 6 85	177 8 85
18 0 90	58 2 90	98 4 90	138 6 90	178 8 90
19 0 95	59 2 95	99 4 95	139 6 95	179 8 95
20 1 00	60 3 00	100 5 00	140 7 00	180 9 00
21 1 05	61 3 05	101 5 05	141 7 05	181 9 05
22 1 10	62 3 10	102 5 10	142 7 10	182 9 10
23 1 15	63 3 15	103 5 15	143 7 15	183 9 15
24 1 20	64 3 20	104 5 20	144 7 20	184 9 20
25 1 25	65 3 25	105 5 25	145 7 25	185 9 25
26 1 30	66 3 30	106 5 30	146 7 30	186 9 30
27 1 35	67 3 35	107 5 35	147 7 35	187 9 35
28 1 40	68 3 40	108 5 40	148 7 40	188 9 40
29 1 45	69 3 45	109 5 45	149 7 45	189 9 45
30 1 50	70 3 50	110 5 50	150 7 50	190 9 50
31 1 55	71 3 55	111 5 55	151 7 55	191 9 55
32 1 60	72 3 60	112 5 60	152 7 60	192 9 60
33 1 65	73 3 65	113 5 65	153 7 65	193 9 65
34 1 70	74 3 70	114 5 70	154 7 70	194 9 70
35 1 75	75 3 75	115 5 75	155 7 75	195 9 75
36 1 80	76 3 80	116 5 80	156 7 80	196 9 80
37 1 85	77 3 85	117 5 85	157 7 85	197 9 85
38 1 90	78 3 90	118 5 90	158 7 90	198 9 90
39 1 95	79 3 95	119 5 95	159 7 95	199 9 95
40 2 00	80 4 00	120 6 00	160 8 00	365 18 25

# NO. 6.

N	N	N	N	N
1 0 0	41 2 40	81 4 86	121 7 26	161 9 66
2 0 12	42 2 52	82 4 92	122 7 32	162 9 72
3 0 18	43 2 58	83 4 98	123 7 38	163 9 78
4 0 24	44 2 64	84 5 04	124 7 44	164 9 84
5 0 30	45 2 70	85 5 10	125 7 50	165 9 90
6 0 36	46 2 76	86 5 16	126 7 56	166 9 96
7 0 42	47 2 82	87 5 22	127 7 62	167 10 02
8 0 48	48 2 88	88 5 28	128 7 68	168 10 08
9 0 54	49 2 94	89 5 34	129 7 74	169 10 14
10 0 60	50 3 00	90 5 40	130 7 80	170 10 20
11 0 66	51 3 06	91 5 46	131 7 86	171 10 26
12 0 72	52 3 12	92 5 52	132 7 92	172 10 32
13 0 78	53 3 18	93 5 58	133 7 98	173 10 38
14 0 84	54 3 24	94 5 64	134 8 04	174 10 44
15 0 90	55 3 30	95 5 70	135 8 10	175 10 50
16 0 96	56 3 36	96 5 76	136 8 16	176 10 56
17 1 02	57 3 42	97 5 82	137 8 22	177 10 62
18 1 08	58 3 48	98 5 88	138 8 28	178 10 68
19 1 14	59 3 54	99 5 94	139 8 34	179 10 74
20 1 20	60 3 60	100 6 00	140 8 40	180 10 80
21 1 26	61 3 66	101 6 06	141 8 46	181 10 86
22 1 32	62 3 72	102 6 12	142 8 52	182 10 92
23 1 38	63 3 78	103 6 18	143 8 58	183 10 98
24 1 44	64 3 84	104 6 24	144 8 64	184 11 04
25 1 50	65 3 90	105 6 30	145 8 70	185 11 10
26 1 56	66 3 96	106 6 36	146 8 76	186 11 16
27 1 62	67 4 02	107 6 42	147 8 82	187 11 22
28 1 68	68 4 08	108 6 48	148 8 88	188 11 28
29 1 74	69 4 14	109 6 54	149 8 94	189 11 34
30 1 80	70 4 20	110 6 60	150 9 00	190 11 40
31 1 86	71 4 26	111 6 66	151 9 06	191 11 46
32 1 92	72 4 32	112 6 72	152 9 12	192 11 52
33 1 98	73 4 38	113 6 78	153 9 18	193 11 58
34 2 04	74 4 44	114 6 84	154 9 24	194 11 64
35 2 10	75 4 50	115 6 90	155 9 30	195 11 70
36 2 16	76 4 56	116 6 96	156 9 36	196 11 76
37 2 22	77 4 62	117 7 02	157 9 42	197 11 82
38 2 28	78 4 68	118 7 08	158 9 48	198 11 88
39 2 34	79 4 74	119 7 14	159 9 54	199 11 94
40 2 40	80 4 80	120 7 20	160 9 60	200 12 00

# NO. 7.

N	N	N	N	N
1 0 7	41 2 87	81 5 67	121 8 47	161 11 27
2 0 14	42 2 94	82 5 74	122 8 54	162 11 34
3 0 21	43 3 01	83 5 81	123 8 61	163 11 41
4 0 28	44 3 08	84 5 88	124 8 68	164 11 48
5 0 35	45 3 15	85 5 95	125 8 75	165 11 55
6 0 42	46 3 22	86 6 02	126 8 82	166 11 62
7 0 49	47 3 29	87 6 09	127 8 89	167 11 69
8 0 56	48 3 36	88 6 16	128 8 96	168 11 76
9 0 63	49 3 43	89 6 23	129 9 03	169 11 83
10 0 70	50 3 50	90 6 30	130 9 10	170 11 90
11 0 77	51 3 57	91 6 37	131 9 17	171 11 97
12 0 84	52 3 64	92 6 44	132 9 24	172 12 04
13 0 91	53 3 71	93 6 51	133 9 31	173 12 11
14 0 98	54 3 78	94 6 58	134 9 38	174 12 18
15 1 05	55 3 85	95 6 65	135 9 45	175 12 25
16 1 12	56 3 92	96 6 72	136 9 52	176 12 32
17 1 19	57 3 99	97 6 79	137 9 59	177 12 39
18 1 26	58 4 06	98 6 86	138 9 66	178 12 46
19 1 33	59 4 13	99 6 93	139 9 73	179 12 53
20 1 40	60 4 20	100 7 00	140 9 80	180 12 60
21 1 47	61 4 27	101 7 07	141 9 87	181 12 67
22 1 54	62 4 34	102 7 14	142 9 94	182 12 74
23 1 61	63 4 41	103 7 21	143 10 01	183 12 81
24 1 68	64 4 48	104 7 28	144 10 08	184 12 88
25 1 75	65 4 55	105 7 35	145 10 15	185 12 95
26 1 82	66 4 62	106 7 42	146 10 22	186 13 02
27 1 89	67 4 69	107 7 49	147 10 29	187 13 09
28 1 96	68 4 76	108 7 56	148 10 36	188 13 16
29 2 03	69 4 83	109 7 63	149 10 43	189 13 23
30 2 10	70 4 90	110 7 70	150 10 50	190 13 30
31 2 17	71 4 97	111 7 77	151 10 57	191 13 37
32 2 24	72 5 04	112 7 84	152 10 64	192 13 44
33 2 31	73 5 11	113 7 91	153 10 71	193 13 51
34 2 38	74 5 18	114 7 98	154 10 78	194 13 58
35 2 45	75 5 25	115 8 05	155 10 85	195 13 65
36 2 52	76 5 32	116 8 12	156 10 92	196 13 72
37 2 59	77 5 39	117 8 19	157 10 99	197 13 79
38 2 66	78 5 46	118 8 26	158 11 06	198 13 86
39 2 73	79 5 53	119 8 33	159 11 13	199 13 93
40 2 80	80 5 60	120 8 40	160 11 20	200 14 00

# NO. 8.

N	N	N	N	N					
1	0 8	41	3 28	81	6 48	121	9 68	161	12 88
2	0 16	42	3 36	82	6 56	122	9 76	162	12 96
3	0 24	43	3 44	83	6 64	123	9 84	163	13 04
4	0 32	44	3 52	84	6 72	124	9 92	164	13 12
5	0 40	45	3 60	85	6 80	125	10 00	165	13 20
6	0 48	46	3 68	86	6 88	126	10 08	166	13 28
7	0 56	47	3 76	87	6 96	127	10 16	167	13 36
8	0 64	48	3 84	88	7 04	128	10 24	168	13 44
9	0 72	49	3 92	89	7 12	129	10 32	169	13 52
10	0 80	50	4 00	90	7 20	130	10 40	170	13 60
11	0 88	51	4 08	91	7 28	131	10 48	171	13 68
12	0 96	52	4 16	92	7 36	132	10 56	172	13 76
13	1 04	53	4 24	93	7 44	133	10 64	173	13 84
14	1 12	54	4 32	94	7 52	134	10 72	174	13 92
15	1 20	55	4 40	95	7 60	135	10 80	175	14 00
16	1 28	56	4 48	96	7 68	136	10 88	176	14 08
17	1 35	57	4 56	97	7 76	137	10 96	177	14 16
18	1 44	58	4 64	98	7 84	138	11 04	178	14 24
19	1 52	59	4 72	99	7 92	139	11 12	179	14 32
20	1 60	60	4 80	100	8 00	140	11 20	180	14 40
21	1 68	61	4 88	101	8 08	141	11 28	181	14 48
22	1 76	62	4 96	102	8 16	142	11 36	182	14 56
23	1 84	63	5 04	103	8 24	143	11 44	183	14 64
24	1 92	64	5 12	104	8 32	144	11 52	184	14 72
25	2 00	65	5 20	105	8 40	145	11 60	185	14 80
26	2 08	66	5 28	106	8 48	146	11 68	186	14 88
27	2 16	67	5 36	107	8 56	147	11 76	187	14 96
28	2 24	68	5 44	108	8 64	148	11 84	188	15 04
29	2 32	69	5 52	109	8 72	149	11 92	189	15 12
30	2 40	70	5 60	110	8 80	150	12 00	190	15 20
31	2 48	71	5 68	111	8 88	151	12 08	191	15 28
32	2 56	72	5 76	112	8 96	152	12 16	192	15 36
33	2 64	73	5 84	113	9 04	153	12 24	193	15 44
34	2 72	74	5 92	114	9 12	154	12 32	194	15 52
35	2 80	75	6 00	115	9 20	155	11 40	195	15 60
36	2 88	76	6 08	116	9 28	156	12 48	196	15 68
37	2 96	77	6 16	117	9 36	157	12 56	197	15 76
38	3 04	78	6 24	118	9 44	158	12 64	198	15 84
39	3 12	79	6 32	119	9 52	159	12 72	199	15 92
40	3 20	80	6 40	120	9 60	160	12 80	200	16 00

# NO. 9

N	N	N	N	N
1 0 9	11 3 69	81 7 29	121 10 89	161 14 49
2 0 18	12 3 78	82 7 38	122 10 98	162 14 58
3 0 27	13 3 87	83 7 47	123 11 07	163 14 67
4 0 36	14 3 96	84 7 56	124 11 16	164 14 76
5 0 45	15 4 05	85 7 65	125 11 25	165 14 85
6 0 54	16 4 14	86 7 74	126 11 34	166 14 94
7 0 63	17 4 23	87 7 83	127 11 43	167 15 03
8 0 72	18 4 32	88 7 92	128 11 52	168 15 12
9 0 81	19 4 41	89 8 01	129 11 61	169 15 21
10 0 90	20 4 50	90 8 10	130 11 70	170 15 30
11 0 99	21 4 59	91 8 19	131 11 79	171 15 39
12 1 08	22 4 68	92 8 28	132 11 88	172 15 48
13 1 17	23 4 77	93 8 37	133 11 97	173 15 57
14 1 26	24 4 86	94 8 46	134 12 06	174 15 66
15 1 35	25 4 95	95 8 55	135 12 15	175 15 75
16 1 44	26 5 04	96 8 64	136 12 24	176 15 84
17 1 53	27 5 13	97 8 73	137 12 33	177 15 93
18 1 62	28 5 22	98 8 82	138 12 42	178 16 02
19 1 71	29 5 31	99 8 91	139 12 51	179 16 11
20 1 80	30 5 40	100 9 00	140 12 60	180 16 20
21 1 89	31 5 49	101 9 09	141 12 69	181 16 29
22 1 98	32 5 58	102 9 18	142 12 78	182 16 38
23 2 07	33 5 67	103 9 27	143 12 87	183 16 47
24 2 16	34 5 76	104 9 36	144 12 96	184 16 56
25 2 25	35 5 85	105 9 45	145 13 05	185 16 65
26 2 34	36 5 94	106 9 54	146 13 14	186 16 74
27 2 43	37 6 03	107 9 63	147 13 23	187 16 83
28 2 52	38 6 12	108 9 72	148 13 32	188 16 92
29 2 61	39 6 21	109 9 81	149 13 41	189 17 01
30 2 70	40 6 30	110 9 90	150 13 50	190 17 10
31 2 79	41 6 39	111 9 99	151 13 59	191 17 19
32 2 88	42 6 48	112 10 08	152 13 68	192 17 28
33 2 97	43 6 57	113 10 17	153 13 77	193 17 37
34 3 06	44 6 66	114 10 26	154 13 86	194 17 46
35 3 15	45 6 75	115 10 35	155 13 95	195 17 55
36 3 24	46 6 84	116 10 44	156 14 04	196 17 64
37 3 33	47 6 93	117 10 53	157 14 13	197 17 73
38 3 42	48 7 02	118 10 62	158 14 22	198 17 82
39 3 51	49 7 11	119 10 71	159 14 31	199 17 91
40 3 60	50 7 20	120 10 80	160 14 40	200 18 00

# NO. 10.

N	N	N	N	N
1 0 10	41 4 10	81 8 10	121 12 10	161 16 10
2 0 20	42 4 20	82 8 20	122 12 20	162 16 20
3 0 30	43 4 30	83 8 30	123 12 30	163 16 30
4 0 40	44 4 40	84 8 40	124 12 40	164 16 40
5 0 50	45 4 50	85 8 50	125 12 50	165 16 50
6 0 60	46 4 60	86 8 60	126 12 60	166 16 60
7 0 70	47 4 70	87 8 70	127 12 70	167 16 70
8 0 80	48 4 80	88 8 80	128 12 80	168 16 80
9 0 90	49 4 90	89 8 90	129 12 90	169 16 90
10 1 00	50 5 00	90 9 00	130 13 00	170 17 00
11 1 10	51 5 10	91 9 10	131 13 10	171 17 10
12 1 20	52 5 20	92 9 20	132 13 20	172 17 20
13 1 30	53 5 30	93 9 30	133 13 30	173 17 30
14 1 40	54 5 40	94 9 40	134 13 40	174 17 40
15 1 50	55 5 50	95 9 50	135 13 50	175 17 50
16 1 60	56 5 60	96 9 60	136 13 60	176 17 60
17 1 70	57 5 70	97 9 70	137 13 70	177 17 70
18 1 80	58 5 80	98 9 80	138 13 80	178 17 80
19 1 90	59 5 90	99 9 90	139 13 90	179 17 90
20 2 00	60 6 00	100 10 00	140 14 00	180 18 00
21 2 10	61 6 10	101 10 10	141 14 10	181 18 10
22 2 20	62 6 20	102 10 20	142 14 20	182 18 20
23 2 30	63 6 30	103 10 30	143 14 30	183 18 30
24 2 40	64 6 40	104 10 40	144 14 40	184 18 40
25 2 50	65 6 50	105 10 50	145 14 50	185 18 50
26 2 60	66 6 60	106 10 60	146 14 60	186 18 60
27 2 70	67 6 70	107 10 70	147 14 70	187 18 70
28 2 80	68 6 80	108 10 80	148 14 80	188 18 80
29 2 90	69 6 90	109 10 90	149 14 90	189 18 90
30 3 00	70 7 00	110 11 00	150 15 00	190 19 00
31 3 10	71 7 10	111 11 10	151 15 10	191 19 10
32 3 20	72 7 20	112 11 20	152 15 20	192 19 20
33 3 30	73 7 30	113 11 30	153 15 30	193 19 30
34 3 40	74 7 40	114 11 40	154 15 40	194 19 40
35 3 50	75 7 50	115 11 50	155 15 50	195 19 50
36 3 60	76 7 60	116 11 60	156 15 60	196 19 60
37 3 70	77 7 70	117 11 70	157 15 70	197 19 70
38 3 80	78 7 80	118 11 80	158 15 80	198 19 80
39 3 90	79 7 90	119 11 90	159 15 90	199 19 90
40 4 00	80 8 00	120 12 00	160 16 00	200 20 00



# NO. 11.

N	N	N	N	N
1	0 11	41 4 51	81 8 91	121 13 31
2	0 22	42 4 62	82 9 02	122 13 42
3	0 33	43 4 73	83 9 13	123 13 53
4	0 44	44 4 84	84 9 24	124 13 64
5	0 55	45 4 95	85 9 35	125 13 75
6	0 66	46 5 06	86 9 46	126 13 86
7	0 77	47 5 17	87 9 57	127 13 97
8	0 88	48 5 28	88 9 68	128 14 08
9	0 99	49 5 39	89 9 79	129 14 19
10	1 10	50 5 50	90 9 90	130 14 30
11	1 21	51 5 61	91 10 01	131 14 41
12	1 32	52 5 72	92 10 12	132 14 52
13	1 43	53 5 83	93 10 23	133 14 63
14	1 54	54 5 94	94 10 34	134 14 74
15	1 65	55 6 05	95 10 45	135 14 86
16	1 76	56 6 16	96 10 56	136 14 96
17	1 87	57 6 27	97 10 67	137 15 07
18	1 98	58 6 38	98 10 78	138 15 18
19	2 09	59 6 49	99 10 89	139 15 21
20	2 20	60 6 60	100 11 00	140 15 41
21	2 31	61 6 71	101 11 11	141 15 51
22	2 42	62 6 82	102 11 22	142 15 62
23	2 53	63 6 93	103 11 33	143 15 73
24	2 64	64 7 04	104 11 44	144 15 84
25	2 75	65 7 15	105 11 55	145 15 95
26	2 86	66 7 26	106 11 66	146 16 06
27	2 97	67 7 37	107 11 77	147 16 17
28	3 08	68 7 48	108 11 88	148 16 28
29	3 19	69 7 59	109 11 99	149 16 39
30	3 30	70 7 70	110 12 10	150 16 50
31	3 41	71 7 81	111 12 21	151 16 61
32	3 52	72 7 92	112 12 32	152 16 72
33	3 63	73 8 03	113 12 43	153 16 83
34	3 74	74 8 14	114 12 54	154 16 94
35	3 85	75 8 25	115 12 65	155 17 05
36	3 96	76 8 36	116 12 76	156 17 16
37	4 07	77 8 47	117 12 87	157 17 27
38	4 18	78 8 58	118 12 98	158 17 38
39	4 29	79 8 69	119 13 09	159 17 49
40	4 40	80 8 80	120 13 20	160 17 60
				365 40 15

# NO. 12..

N	N	N	N	N
1 0 12	41 4 92	81 9 72	121 14 52	161 19 32
2 0 24	42 5 04	82 9 84	122 14 64	162 19 44
3 0 36	43 5 16	83 9 96	123 14 76	163 19 56
4 0 48	44 5 28	84 10 08	124 14 88	164 19 68
5 0 60	45 5 40	85 10 20	125 15 00	165 19 80
6 0 72	46 5 52	86 10 32	126 15 12	166 19 92
7 0 84	47 5 64	87 10 44	127 15 24	167 20 04
8 0 96	48 5 76	88 10 56	128 15 36	168 20 16
9 1 08	49 5 88	89 10 68	129 15 48	169 20 28
10 1 20	50 6 00	90 10 80	130 15 60	170 20 40
11 1 32	51 6 12	91 10 92	131 15 72	171 20 52
12 1 44	52 6 24	92 11 04	132 15 84	172 20 64
13 1 56	53 6 36	93 11 16	133 15 96	173 20 76
14 1 68	54 6 48	94 11 28	134 16 08	174 20 88
15 1 80	55 6 60	95 11 40	135 16 20	175 21 00
16 1 92	56 6 72	96 11 52	136 16 32	176 21 12
17 2 04	57 6 84	97 11 64	137 16 44	177 21 24
18 2 16	58 6 96	98 11 76	138 16 56	178 21 36
19 2 28	59 7 08	99 11 88	139 16 68	179 21 48
20 2 40	60 7 20	100 12 00	140 16 80	180 21 60
21 2 52	61 7 32	101 12 12	141 16 92	181 21 72
22 2 64	62 7 44	102 12 24	142 17 04	182 21 84
23 2 76	63 7 56	103 12 36	143 17 16	183 21 96
24 2 88	64 7 68	104 12 48	144 17 28	184 22 08
25 3 00	65 7 80	105 12 60	145 17 40	185 22 20
26 3 12	66 7 92	106 12 72	146 17 52	186 22 32
27 3 24	67 8 04	107 12 84	147 17 64	187 22 44
28 3 36	68 8 16	108 12 96	148 17 76	188 22 56
29 3 48	69 8 28	109 13 08	149 17 88	189 22 68
30 3 60	70 8 40	110 13 2	150 18 00	190 22 80
31 3 72	71 8 52	111 13 32	151 18 12	191 22 92
32 3 84	72 8 64	112 13 44	152 18 24	192 23 04
33 3 96	73 8 76	113 13 56	153 18 36	193 23 16
34 4 08	74 8 88	114 13 68	154 18 48	194 23 28
35 4 20	75 9 00	115 13 8	155 18 60	195 23 40
36 4 32	76 9 12	116 13 92	156 18 72	196 23 52
37 4 44	77 9 24	117 14 04	157 18 84	197 23 64
38 4 56	78 9 36	118 14 16	158 18 96	198 23 76
39 4 68	79 9 48	119 14 28	159 19 08	199 23 88
40 4 80	80 9 60	120 14 40	160 19 20	365 43 80



# NO. 13.

N	N	N	N	N
1 0 13	41 5 33	81 10 63	121 15 73	161 20 93
2 0 26	42 5 46	82 10 66	122 15 86	162 21 06
3 0 39	43 5 59	83 10 79	123 15 99	163 21 19
4 0 52	44 5 72	84 10 92	124 16 12	164 21 32
5 0 65	45 5 85	85 11 05	125 16 25	165 21 45
6 0 78	46 5 98	86 11 18	126 16 38	166 21 58
7 0 91	47 6 11	87 11 31	127 16 51	167 21 71
8 1 04	48 6 24	88 11 44	128 16 64	168 21 84
9 1 17	49 6 37	89 11 57	129 16 77	169 21 97
10 1 30	50 6 50	90 11 70	130 16 90	170 22 10
11 1 43	51 6 63	91 11 83	131 17 03	171 22 23
12 1 56	52 6 76	92 11 96	132 17 16	172 22 36
13 1 69	53 6 89	93 12 09	133 17 29	173 22 49
14 1 82	54 7 02	94 12 22	134 17 42	174 22 62
15 1 95	55 7 15	95 12 35	135 17 55	175 22 75
16 2 08	56 7 28	96 12 48	136 17 68	176 22 88
17 2 21	57 7 41	97 12 61	137 17 81	177 23 01
18 2 34	58 7 54	98 12 74	138 17 94	178 23 14
19 2 47	59 7 67	99 12 87	139 18 07	179 23 27
20 2 60	60 7 80	100 13 00	140 18 20	180 23 40
21 2 73	61 7 93	101 13 13	141 18 33	181 23 53
22 2 86	62 8 06	102 13 26	142 18 46	182 23 66
23 2 99	63 8 19	103 13 39	143 18 59	183 23 79
24 3 12	64 8 32	104 13 52	144 18 72	184 23 92
25 3 25	65 8 45	105 13 65	145 18 85	185 24 05
26 3 38	66 8 58	106 13 78	146 18 98	186 24 18
27 3 51	67 8 71	107 13 91	147 19 11	187 24 31
28 3 64	68 8 84	108 14 04	148 19 24	188 24 44
29 3 77	69 8 97	109 14 17	149 19 37	189 24 57
30 3 90	70 9 10	110 14 30	150 19 50	190 24 70
31 4 03	71 9 23	111 14 43	151 19 63	191 24 83
32 4 16	72 9 36	112 14 56	152 19 76	192 24 96
33 4 29	73 9 49	113 14 69	153 19 89	193 25 09
34 4 42	74 9 62	114 14 82	154 20 02	194 25 22
35 4 55	75 9 75	115 14 95	155 20 15	195 25 35
36 4 68	76 9 88	116 15 08	156 20 28	196 25 48
37 4 81	77 10 01	117 15 21	157 20 41	197 25 61
38 4 94	78 10 14	118 15 34	158 20 54	198 25 74
39 5 07	79 10 27	119 15 47	159 20 67	199 25 87
40 5 20	80 10 40	120 15 60	160 20 80	365 47 45

# NO. 14.

N	N	N	N	N
1 0 14	41 5 74	81 11 34	121 16 94	161 22 54
2 0 28	42 5 88	82 11 48	122 17 08	162 22 68
3 0 42	43 6 02	83 11 62	123 17 22	163 22 82
4 0 56	44 6 16	84 11 76	124 17 36	164 22 96
5 0 70	45 6 30	85 11 90	125 17 50	165 23 10
6 0 84	46 6 44	86 12 04	126 17 64	166 23 24
7 0 98	47 6 58	87 12 18	127 17 78	167 23 38
8 1 12	48 6 72	88 12 32	128 17 92	168 23 52
9 1 26	49 6 86	89 12 46	129 18 06	169 23 66
10 1 40	50 7 00	90 12 60	130 18 20	170 23 80
11 1 54	51 7 14	91 12 74	131 18 34	171 23 94
12 1 68	52 7 28	92 12 88	132 18 48	172 24 08
13 1 82	53 7 42	93 13 02	133 18 62	173 24 22
14 1 96	54 7 56	94 13 16	134 18 76	174 24 36
15 2 10	55 7 70	95 13 30	135 18 90	175 24 50
16 2 24	56 7 84	96 13 44	136 19 04	176 24 64
17 2 38	57 7 98	97 13 58	137 19 18	177 24 78
18 2 52	58 8 12	98 13 72	138 19 32	178 24 92
19 2 66	59 8 26	99 13 86	139 19 46	179 25 06
20 2 80	60 8 40	100 14 00	140 19 60	180 25 20
21 2 94	61 8 54	101 14 14	141 19 74	181 25 34
22 3 08	62 8 68	102 14 28	142 19 88	182 25 48
23 3 22	63 8 82	103 14 42	143 20 02	183 25 62
24 3 36	64 8 96	104 14 56	144 20 16	184 25 76
25 3 50	65 9 10	105 14 70	145 20 30	185 25 90
26 3 64	66 9 24	106 14 84	146 20 44	186 26 04
27 3 78	67 9 38	107 14 98	147 20 58	187 26 18
28 3 92	68 9 52	108 15 12	148 20 72	188 26 32
29 4 06	69 9 66	109 15 26	149 20 86	189 26 46
30 4 20	70 9 80	110 15 40	150 21 00	190 26 60
31 4 34	71 9 94	111 15 54	151 21 14	191 26 74
32 4 48	72 10 08	112 15 68	152 21 28	192 26 88
33 4 62	73 10 22	113 15 82	153 21 42	193 27 02
34 4 76	74 10 36	114 15 96	154 21 56	194 27 16
35 4 90	75 10 50	115 16 10	155 21 70	195 27 30
36 5 04	76 10 64	116 16 24	156 21 84	196 27 44
37 5 18	77 10 78	117 16 38	157 21 98	197 27 58
38 5 32	78 10 92	118 16 52	158 22 12	198 27 72
39 5 46	79 11 06	119 16 66	159 22 26	199 27 86
40 5 60	80 11 20	120 16 80	160 22 40	200 28 00

# NO. 13.

N N N N N

1	0 15	41	6 15	81	12 15	121	18 15	161	24 15
2	0 30	42	6 30	82	12 30	122	18 30	162	24 30
3	0 45	43	6 45	83	12 45	123	18 45	163	24 45
4	0 60	44	6 60	84	12 60	124	18 60	164	24 60
5	0 75	45	6 75	85	12 75	125	18 75	165	24 75
6	0 90	46	6 90	86	12 90	126	18 90	166	24 90
7	1 05	47	7 05	87	13 05	127	19 05	167	25 05
8	1 20	48	7 20	88	13 20	128	19 20	168	25 20
9	1 35	49	7 35	89	13 35	129	19 35	169	25 35
10	1 50	50	7 50	90	13 50	130	19 50	170	25 50
11	1 65	51	7 65	91	13 65	131	19 65	171	25 65
12	1 80	52	7 80	92	13 80	132	19 80	172	25 80
13	1 95	53	7 95	93	13 95	133	19 95	173	25 95
14	2 10	54	8 10	94	14 10	134	20 10	174	26 10
15	2 25	55	8 25	95	14 25	135	20 25	175	26 25
16	2 40	56	8 40	96	14 40	136	20 40	176	26 40
17	2 55	57	8 55	97	14 55	137	20 55	177	26 55
18	2 70	58	8 70	98	14 70	138	20 70	178	26 70
19	2 85	59	8 85	99	14 85	139	20 85	179	26 85
20	3 00	60	9 00	100	15 00	140	21 00	180	27 00
21	3 15	61	9 15	101	15 15	141	21 15	181	27 15
22	3 30	62	9 30	102	15 30	142	21 30	182	27 30
23	3 45	63	9 45	103	15 45	143	21 45	183	27 45
24	3 60	64	9 60	104	15 60	144	21 60	184	27 60
25	3 75	65	9 75	105	15 75	145	21 75	185	27 75
26	3 90	66	9 90	106	15 90	146	21 90	186	27 90
27	4 05	67	10 05	107	16 05	147	22 05	187	28 05
28	4 20	68	10 20	108	16 20	148	22 20	188	28 20
29	4 35	69	10 35	109	16 35	149	22 35	189	28 35
30	4 50	70	10 50	110	16 50	150	22 50	190	28 50
31	4 65	71	10 65	111	16 65	151	22 65	191	28 65
32	4 80	72	10 80	112	16 80	152	22 80	192	28 80
33	4 95	73	10 95	113	16 95	153	22 95	193	28 95
34	5 10	74	11 10	114	17 10	154	23 10	194	29 10
35	5 25	75	11 25	115	17 25	155	23 25	195	29 25
36	5 40	76	11 40	116	17 40	156	23 40	196	29 40
37	5 55	77	11 55	117	17 55	157	23 55	197	29 55
38	5 70	78	11 70	118	17 70	158	23 70	198	29 70
39	5 85	79	11 85	119	17 85	159	23 85	199	29 85
40	6 00	80	12 00	120	18 00	160	24 00	200	30 00

# NO. 16.

N	N	N	N	N
1 0 16	41 6 56	81 12 96	121 19 36	161 25 76
2 0 32	42 6 72	82 13 12	122 19 52	162 25 92
3 0 48	43 6 88	83 13 28	123 19 68	163 26 08
4 0 64	44 7 04	84 13 44	124 19 84	164 26 24
5 0 80	45 7 20	85 13 60	125 20 00	165 26 40
6 0 96	46 7 36	86 13 76	126 20 16	166 26 56
7 1 12	47 7 52	87 13 92	127 20 32	167 26 72
8 1 28	48 7 68	88 14 08	128 20 48	168 26 88
9 1 44	49 7 84	89 14 24	129 20 64	169 27 04
10 1 60	50 8 00	90 14 40	130 20 80	170 27 20
11 1 76	51 8 16	91 14 56	131 20 96	171 27 36
12 1 92	52 8 32	92 14 72	132 21 12	172 27 52
13 2 08	53 8 48	93 14 88	133 21 28	173 27 68
14 2 24	54 8 64	94 15 04	134 21 44	174 27 84
15 2 40	55 8 80	95 15 20	135 21 60	175 28 00
16 2 56	56 8 96	96 15 36	136 21 76	176 28 16
17 2 72	57 9 12	97 15 52	137 21 92	177 28 32
18 2 88	58 9 28	98 15 68	138 22 08	178 28 48
19 3 04	59 9 44	99 15 84	139 22 24	179 28 64
20 3 20	60 9 60	100 16 00	140 22 40	180 28 80
21 3 36	61 9 76	101 16 16	141 22 56	181 28 96
22 3 52	62 9 92	102 16 32	142 22 72	182 29 12
23 3 68	63 10 08	103 16 48	143 22 88	183 29 28
24 3 84	64 10 24	104 16 64	144 23 04	184 29 44
25 4 00	65 10 40	105 16 80	145 23 20	185 29 60
26 4 16	66 10 56	106 16 96	146 23 36	186 29 76
27 4 32	67 10 72	107 17 12	147 23 52	187 29 92
28 4 48	68 10 88	108 17 28	148 23 68	188 30 08
29 4 64	69 11 04	109 17 44	149 23 84	189 30 24
30 4 80	70 11 20	110 17 60	150 24 00	190 30 40
31 4 96	71 11 36	111 17 76	151 24 16	191 30 56
32 5 12	72 11 52	112 17 92	152 24 32	192 30 72
33 5 28	73 11 68	113 18 08	153 24 48	193 30 88
34 5 44	74 11 84	114 18 24	154 24 64	194 31 04
35 5 60	75 12 00	115 18 40	155 24 80	195 31 20
36 5 76	76 12 16	116 18 56	156 24 96	196 31 36
37 5 92	77 12 32	117 18 72	157 25 12	197 31 52
38 6 08	78 12 48	118 18 88	158 25 28	198 31 68
39 6 24	79 12 64	119 19 04	159 25 44	199 31 84
40 6 40	80 12 80	120 19 20	160 25 60	200 31 00

# NO. 17.

N	N	N	N	N
1 0 17	41 6 97	81 13 77	121 20 57	161 27 37
2 0 34	42 7 14	82 13 94	122 20 74	162 27 54
3 0 51	43 7 31	83 14 11	123 20 91	163 27 71
4 0 68	44 7 48	84 14 28	124 21 08	164 27 88
5 0 85	45 7 65	85 14 45	125 21 25	165 28 05
6 1 02	46 7 82	86 14 62	126 21 42	166 28 22
7 1 19	47 7 99	87 14 79	127 21 59	167 28 39
8 1 36	48 8 16	88 14 96	128 21 76	168 28 56
9 1 53	49 8 33	89 15 13	129 21 93	169 28 73
10 1 70	50 8 50	90 15 30	130 22 10	170 28 90
11 1 87	51 8 67	91 15 47	131 22 27	171 29 07
12 2 04	52 8 84	92 15 64	132 22 44	172 29 24
13 2 21	53 9 01	93 15 81	133 22 61	173 29 41
14 2 38	54 9 18	94 15 98	134 22 78	174 29 58
15 2 55	55 9 35	95 16 15	135 22 95	175 29 75
16 2 72	56 9 52	96 16 32	136 23 12	176 29 92
17 2 89	57 9 69	97 16 49	137 23 29	177 30 09
18 3 06	58 9 86	98 16 66	138 23 46	178 30 26
19 3 23	59 10 03	99 16 83	139 23 63	179 30 43
20 3 40	60 10 20	100 17 00	140 23 80	180 30 60
21 3 57	61 10 37	101 17 17	141 23 97	181 30 77
22 3 74	62 10 54	102 17 34	142 24 14	182 30 94
23 3 91	63 10 71	103 17 51	143 24 31	183 31 11
24 4 08	64 10 88	104 17 68	144 24 48	184 31 28
25 4 25	65 11 05	105 17 85	145 24 65	185 31 45
26 4 42	66 11 22	106 18 02	146 24 82	186 31 62
27 4 59	67 11 39	107 18 19	147 24 99	187 31 79
28 4 76	68 11 56	108 18 36	148 25 16	188 31 96
29 4 93	69 11 73	109 18 53	149 25 33	189 32 13
30 5 10	70 11 90	110 18 70	150 25 50	190 32 30
31 5 27	71 12 07	111 18 87	151 25 67	191 32 47
32 5 44	72 12 24	112 19 04	152 25 84	192 32 64
33 5 61	73 12 41	113 19 21	153 26 01	193 32 81
34 5 78	74 12 58	114 19 38	154 26 18	194 32 98
35 5 95	75 12 75	115 19 55	155 26 35	195 33 15
36 6 12	76 12 92	116 19 72	156 26 52	196 33 32
37 6 29	77 13 09	117 19 89	157 26 69	197 33 49
38 6 46	78 13 26	118 20 06	158 26 86	198 33 66
39 6 63	79 13 43	119 20 23	159 27 03	199 33 83
40 6 80	80 13 60	120 20 40	160 27 20	200 34 00



# NO. 18.

N

N

N

N

0 18	41 7 38	81 14 58	121 21 78	161 28 98
0 36	42 7 56	82 14 76	122 21 96	162 29 16
0 54	43 7 74	83 14 94	123 22 14	163 29 34
0 72	44 7 92	84 15 12	124 22 32	164 29 52
0 90	45 8 10	85 15 30	125 22 50	165 29 70
1 08	46 8 28	86 15 48	126 22 68	166 29 88
1 26	47 8 46	87 15 66	127 22 86	167 30 06
1 44	48 8 64	88 15 84	128 23 04	168 30 24
1 62	49 8 82	89 16 02	129 23 22	169 30 42
1 80	50 9 00	90 16 20	130 23 40	170 30 60
1 98	51 9 18	91 16 38	131 23 58	171 30 78
2 16	52 9 36	92 16 56	132 23 76	172 30 96
2 34	53 9 54	93 16 74	133 23 94	173 31 14
2 52	54 9 72	94 16 92	134 24 12	174 31 32
2 70	55 9 90	95 17 10	135 24 30	175 31 50
2 88	56 10 08	96 17 28	136 24 48	176 31 68
3 06	57 10 26	97 17 46	137 24 66	177 31 86
3 24	58 10 44	98 17 64	138 24 84	178 32 04
3 42	59 10 62	99 17 82	139 25 02	179 32 22
3 60	60 10 80	100 18 00	140 25 20	180 32 40
3 78	61 10 98	101 18 18	141 25 38	181 32 58
3 96	62 11 16	102 18 36	142 25 56	182 32 76
4 14	63 11 34	103 18 54	143 25 74	183 32 94
4 32	64 11 52	104 18 72	144 25 92	184 33 12
4 50	65 11 70	105 18 90	145 26 10	185 33 30
4 68	66 11 88	106 19 08	146 26 28	186 33 48
4 86	67 12 06	107 19 26	147 26 46	187 33 66
5 04	68 12 24	108 19 44	148 26 64	188 33 84
5 22	69 12 42	109 19 62	149 26 82	189 34 02
5 40	70 12 60	110 19 80	150 27 00	190 34 20
5 58	71 12 78	111 19 98	151 27 18	191 34 38
5 76	72 12 96	112 20 16	152 27 36	192 34 56
5 94	73 13 14	113 20 34	153 27 54	193 34 74
6 12	74 13 32	114 20 52	154 27 72	194 34 92
6 30	75 13 50	115 20 70	155 27 90	195 35 10
6 48	76 13 68	116 20 88	156 28 08	196 35 28
6 66	77 13 86	117 21 06	157 28 26	197 35 46
6 84	78 14 04	118 21 24	158 28 44	198 35 64
7 02	79 14 22	119 21 42	159 28 62	199 35 82
7 20	80 14 40	120 21 60	160 28 80	200 36 00

# NO. 19.

N	N	N	N	N
1 0 19	41 7 79	81 15 39	121 22 99	161 30 59
2 0 38	42 7 98	82 15 58	122 23 18	162 30 78
3 0 57	43 8 17	83 15 77	123 23 37	163 30 97
4 0 76	44 8 36	84 15 96	124 23 56	164 31 16
5 0 95	45 8 55	85 16 15	125 23 75	165 31 35
6 1 14	46 8 74	86 16 34	126 23 94	166 31 54
7 1 33	47 8 93	87 16 53	127 24 13	167 31 73
8 1 52	48 9 12	88 16 72	128 24 32	168 31 92
9 1 71	49 9 31	89 16 91	129 24 51	169 32 11
10 1 90	50 9 50	90 17 10	130 24 70	170 32 30
11 2 09	51 9 69	91 17 29	131 24 89	171 32 49
12 2 28	52 9 88	92 17 48	132 25 08	172 32 68
13 2 47	53 10 07	93 17 67	133 25 27	173 32 87
14 2 66	54 10 26	94 17 86	134 25 46	174 33 06
15 2 85	55 10 45	95 18 05	135 25 65	175 33 25
16 3 04	56 10 64	96 18 24	136 25 84	176 33 44
17 3 23	57 10 83	97 18 43	137 26 03	177 33 63
18 3 42	58 11 02	98 18 62	138 26 22	178 33 82
19 3 61	59 11 21	99 18 81	139 26 41	179 34 01
20 3 80	60 11 40	100 19 00	140 26 60	180 34 20
21 3 99	61 11 59	101 19 19	141 26 79	181 34 39
22 4 18	62 11 78	102 19 38	142 26 98	182 34 58
23 4 37	63 11 97	103 19 57	143 27 17	183 34 77
24 4 56	64 12 16	104 19 76	144 27 36	184 34 96
25 4 75	65 12 35	105 19 95	145 27 55	185 35 15
26 4 94	66 12 54	106 20 14	146 27 74	186 35 34
27 5 13	67 12 73	107 20 33	147 27 93	187 35 53
28 5 32	68 12 92	108 20 52	148 28 12	188 35 72
29 5 51	69 13 11	109 20 71	149 28 31	189 35 91
30 5 70	70 13 30	110 20 90	150 28 50	190 36 10
31 5 89	71 13 49	111 21 09	151 28 69	191 36 29
32 6 08	72 13 68	112 21 28	152 28 88	192 36 48
33 6 27	73 13 87	113 21 47	153 29 07	193 36 67
34 6 46	74 14 06	114 21 66	154 29 26	194 36 86
35 6 65	75 14 25	115 21 85	155 29 45	195 37 05
36 6 84	76 14 44	116 22 04	156 29 64	196 37 24
37 7 03	77 14 63	117 22 23	157 29 83	197 37 43
38 7 22	78 14 82	118 22 42	158 30 02	198 37 62
39 7 41	79 15 01	119 22 61	159 30 21	199 37 81
40 7 60	80 15 20	120 22 80	160 30 40	200 38 00

# NO. 20:

N	N	N	N	N
1 0 20	41 8 20	81 16 20	121 24 20	161 32 20
2 0 40	42 8 40	82 16 40	122 24 40	162 32 40
3 0 60	43 8 60	83 16 60	123 24 60	163 32 60
4 0 80	44 8 80	84 16 80	124 24 80	164 32 80
5 1 00	45 9 00	85 17 00	125 25 00	165 33 00
6 1 20	46 9 20	86 17 20	126 25 20	166 33 20
7 1 40	47 9 40	87 17 40	127 25 40	167 33 40
8 1 60	48 9 60	88 17 60	128 25 60	168 33 60
9 1 80	49 9 80	89 17 80	129 25 80	169 33 80
10 2 00	50 10 00	90 18 00	130 26 00	170 34 00
11 2 20	51 10 20	91 18 20	131 26 20	171 34 20
12 2 40	52 10 40	92 18 40	132 26 40	172 34 40
13 2 60	53 10 60	93 18 60	133 26 60	173 34 60
14 2 80	54 10 80	94 18 80	134 26 80	174 34 80
15 3 00	55 11 00	95 19 00	135 27 00	175 35 00
16 3 20	56 11 20	96 19 20	136 27 20	176 35 20
17 3 40	57 11 40	97 19 40	137 27 40	177 35 40
18 3 60	58 11 60	98 19 60	138 27 60	178 35 60
19 3 80	59 11 80	99 19 80	139 27 80	179 35 80
20 4 00	60 12 00	100 20 00	140 28 00	180 36 00
21 4 20	61 12 20	101 20 20	141 28 20	181 36 20
22 4 40	62 12 40	102 20 40	142 28 40	182 36 40
23 4 60	63 12 60	103 20 60	143 28 60	183 36 60
24 4 80	64 12 80	104 20 80	144 28 80	184 36 80
25 5 00	65 13 00	105 21 00	145 29 00	185 37 00
26 5 20	66 13 20	106 21 20	146 29 20	186 37 20
27 5 40	67 13 40	107 21 40	147 29 40	187 37 40
28 5 60	68 13 60	108 21 60	148 29 60	188 37 60
29 5 80	69 13 80	109 21 80	149 29 80	189 37 80
30 6 00	70 14 00	110 22 00	150 30 00	190 38 00
31 6 20	71 14 20	111 22 20	151 30 20	191 38 20
32 6 40	72 14 40	112 22 40	152 30 40	192 38 40
33 6 60	73 14 60	113 22 60	153 30 60	193 38 60
34 6 80	74 14 80	114 22 80	154 30 80	194 38 80
35 7 00	75 15 00	115 22 00	155 31 00	195 39 00
36 7 20	76 15 20	116 23 20	156 31 20	196 39 20
37 7 40	77 15 40	117 23 40	157 31 40	197 39 40
38 7 60	78 15 60	118 23 60	158 31 60	198 39 60
39 7 80	79 15 80	119 23 80	159 31 80	199 39 80
40 8 00	80 16 00	120 24 00	160 32 00	200 40 00



# NO. 21.

N	N	N	N	N
1 0 21	41 8 61	81 17 01	121 25 41	161 33 81
2 0 42	42 8 82	82 17 22	122 25 62	162 34 02
3 0 63	43 9 03	83 17 43	123 25 83	163 34 23
4 0 84	44 9 24	84 17 64	124 26 04	164 34 44
5 1 05	45 9 45	85 17 85	125 26 25	165 34 65
6 1 26	46 9 66	86 18 06	126 26 46	166 34 86
7 1 47	47 9 87	87 18 27	127 26 67	167 35 07
8 1 68	48 10 08	88 18 48	128 26 88	168 35 28
9 1 89	49 10 29	89 18 69	129 27 09	169 35 49
10 2 10	50 10 50	90 18 90	130 27 30	170 35 70
11 2 31	51 10 71	91 19 11	131 27 51	171 35 91
12 2 52	52 10 92	92 19 32	132 27 72	172 36 12
13 2 73	53 11 13	93 19 53	133 27 93	173 36 33
14 2 94	54 11 34	94 19 74	134 28 14	174 36 54
15 3 15	55 11 55	95 19 95	135 28 35	175 36 75
16 3 36	56 11 76	96 20 16	136 28 56	176 36 96
17 3 57	57 11 97	97 20 37	137 28 77	177 37 17
18 3 78	58 12 18	98 20 58	138 28 98	178 37 38
19 3 99	59 12 39	99 20 79	139 29 19	179 37 59
20 4 20	60 12 60	100 21 00	140 29 40	180 37 80
21 4 41	61 12 81	101 21 21	141 29 61	181 38 01
22 4 62	62 13 02	102 21 42	142 29 82	182 38 22
23 4 83	63 13 23	103 21 63	143 30 03	183 38 43
24 5 04	64 13 44	104 21 84	144 30 24	184 38 64
25 5 25	65 13 65	105 22 05	145 30 45	185 38 85
26 5 46	66 13 86	106 22 26	146 30 66	186 39 06
27 5 67	67 14 07	107 22 47	147 30 87	187 39 27
28 5 88	68 14 28	108 22 68	148 31 08	188 39 48
29 6 09	69 14 49	109 22 89	149 31 29	189 39 69
30 6 30	70 14 70	110 23 10	150 31 50	190 39 90
31 6 51	71 14 91	111 23 31	151 31 71	191 40 11
32 6 72	72 15 12	112 23 52	152 31 92	192 40 32
33 6 93	73 15 33	113 23 73	153 32 13	193 40 53
34 7 14	74 15 54	114 23 94	154 32 34	194 40 74
35 7 35	75 15 75	115 24 15	155 32 55	195 40 95
36 7 56	76 15 96	116 24 36	156 32 76	196 41 16
37 7 77	77 16 17	117 24 57	157 32 97	197 41 37
38 7 98	78 16 38	118 24 78	158 33 18	198 41 58
39 8 19	79 16 59	119 24 99	159 33 39	199 41 79
40 8 40	80 16 80	120 25 20	160 33 60	365 76 65

# NO. 22.

N	N	N	N	N
1 0 22	41 9 02	81 17 82	121 26 62	161 35 42
2 0 44	42 9 24	82 18 04	122 26 84	162 35 64
3 0 66	43 9 46	83 18 26	123 27 06	163 35 86
4 0 88	44 9 68	84 18 48	124 27 28	164 36 08
5 1 10	45 9 90	85 18 70	125 27 50	165 36 30
6 1 32	46 10 12	86 18 92	126 27 72	166 35 52
7 1 54	47 10 34	87 19 14	127 27 94	167 36 74
8 1 76	48 10 56	88 19 36	128 28 16	168 36 96
9 1 98	49 10 78	89 19 58	129 28 38	169 37 18
10 2 20	50 11 00	90 19 80	130 28 60	170 37 40
11 2 42	51 11 22	91 20 02	131 28 82	171 37 62
12 2 64	52 11 44	92 20 24	132 29 04	172 37 84
13 2 86	53 11 66	93 20 46	133 29 26	173 38 06
14 3 08	54 11 88	94 20 68	134 29 48	174 38 28
15 3 30	55 12 10	95 20 90	135 29 70	175 38 50
16 3 52	56 12 32	96 21 12	136 29 92	176 38 72
17 3 74	57 12 54	97 21 34	137 30 14	177 38 94
18 3 96	58 12 76	98 21 56	138 30 36	178 39 16
19 4 18	59 12 98	99 21 78	139 30 58	179 39 38
20 4 40	60 13 20	100 22 00	140 30 80	180 39 60
21 4 62	61 13 42	101 22 22	141 31 02	181 39 82
22 4 84	62 13 64	102 22 44	142 31 24	182 40 04
23 5 06	63 13 86	103 22 66	143 31 46	183 40 26
24 5 28	64 14 08	104 22 88	144 31 68	184 40 48
25 5 50	65 14 30	105 23 10	145 31 90	185 40 70
26 5 72	66 14 52	106 23 32	146 32 12	186 40 92
27 5 94	67 14 74	107 23 54	147 32 34	187 41 14
28 6 16	68 14 96	108 23 76	148 32 56	188 41 36
29 6 38	69 15 18	109 23 98	149 32 78	189 41 58
30 6 60	70 15 40	110 24 20	150 33 00	190 41 80
31 6 82	71 15 62	111 24 42	151 33 22	191 42 02
32 7 04	72 15 84	112 24 64	152 33 44	192 42 24
33 7 26	73 16 06	113 24 86	153 33 66	193 42 46
34 7 48	74 16 28	114 25 08	154 33 88	194 42 68
35 7 70	75 16 50	115 25 30	155 34 10	195 42 90
36 7 92	76 16 72	116 25 52	156 34 32	196 43 12
37 8 14	77 16 94	117 25 74	157 34 54	197 43 34
38 8 36	78 17 16	118 25 96	158 34 76	198 43 56
39 8 58	79 17 38	119 26 18	159 34 98	199 43 78
40 8 80	80 17 60	120 26 40	160 35 20	365 80 30

# NO. 23.

N	N	N	N	N
1 0 23	41 9 43	81 18 63	121 27 83	161 37 03
2 0 46	42 9 66	82 18 86	122 28 06	162 37 26
3 0 69	43 9 89	83 19 09	123 28 29	163 37 49
4 0 92	44 10 12	84 19 32	124 28 52	164 37 72
5 1 15	45 10 35	85 19 55	125 28 75	165 37 95
6 1 38	46 10 58	86 19 78	126 28 98	166 38 18
7 1 61	47 10 81	87 20 01	127 29 21	167 38 41
8 1 84	48 11 04	88 20 24	128 29 44	168 38 64
9 2 07	49 11 27	89 20 47	129 29 67	169 38 87
10 2 30	50 11 50	90 20 70	130 29 90	170 39 10
11 2 53	51 11 73	91 20 93	131 30 13	171 39 33
12 2 76	52 11 96	92 21 16	132 30 36	172 39 56
13 2 99	53 12 19	93 21 39	133 30 59	173 39 79
14 3 22	54 12 42	94 21 92	134 30 82	174 40 02
15 3 45	55 12 65	95 21 85	135 31 05	175 40 25
16 3 68	56 12 88	96 22 08	136 31 28	176 40 48
17 3 91	57 13 11	97 22 31	137 31 51	177 40 71
18 4 14	58 13 34	98 22 54	138 31 74	178 40 94
19 4 37	59 13 57	99 22 77	139 31 97	179 41 17
20 4 60	60 13 80	100 23 00	140 32 20	180 41 40
21 4 83	61 14 03	101 23 23	141 32 43	181 41 63
22 5 06	62 14 26	102 23 46	142 32 66	182 41 86
23 5 29	63 14 49	103 23 69	143 32 89	183 42 09
24 5 52	64 14 72	104 23 92	144 33 12	184 42 32
25 5 75	65 14 95	105 24 15	145 33 35	185 42 55
26 5 98	66 15 18	106 24 38	146 33 58	186 42 78
27 6 21	67 15 41	107 24 61	147 33 81	187 43 01
28 6 44	68 15 64	108 24 84	148 34 04	188 43 24
29 6 67	69 15 87	109 25 07	149 34 27	189 43 47
30 6 90	70 16 10	110 25 30	150 34 50	190 43 70
31 7 13	71 16 33	111 25 53	151 34 73	191 43 93
32 7 36	72 16 56	112 25 76	152 34 96	192 44 16
33 7 59	73 16 79	113 25 99	153 35 19	193 44 39
34 7 82	74 17 02	114 26 22	154 35 42	194 44 62
35 8 05	75 17 25	115 26 45	155 35 65	195 44 85
36 8 28	76 17 48	116 26 68	156 35 88	196 45 08
37 8 51	77 17 71	117 26 91	157 36 11	197 45 31
38 8 74	78 17 94	118 27 14	158 36 34	198 45 54
39 8 97	79 18 17	119 27 37	159 36 57	199 45 77
40 9 20	80 18 40	120 27 60	160 36 80	365 83 95

# NO. 24.

N	N	N	N	N
1 0 24	41 9 84	81 19 44	121 29 04	161 38 64
2 0 48	42 10 08	82 19 68	122 29 28	162 38 88
3 0 72	43 10 32	83 19 92	123 29 52	163 39 12
4 0 96	44 10 56	84 20 16	124 29 76	164 39 36
5 1 20	45 10 80	85 20 40	125 30 00	165 39 60
6 1 44	46 11 04	86 20 64	126 30 24	166 39 84
7 1 68	47 11 28	87 20 88	127 30 48	167 40 08
8 1 92	48 11 52	88 21 12	128 30 72	168 40 32
9 2 16	49 11 76	89 21 36	129 30 96	169 40 56
10 2 40	50 12 00	90 21 60	130 31 20	170 40 80
11 2 64	51 12 24	91 21 84	131 31 44	171 41 04
12 2 88	52 12 48	92 22 08	132 31 68	172 41 28
13 3 12	53 12 72	93 22 32	133 31 92	173 41 52
14 3 36	54 12 96	94 22 56	134 32 16	174 41 76
15 3 60	55 13 20	95 22 80	135 32 40	175 42 00
16 3 84	56 13 44	96 23 04	136 32 64	176 42 24
17 4 08	57 13 68	97 23 28	137 32 88	177 42 48
18 4 32	58 13 92	98 23 52	138 33 12	178 42 72
19 4 56	59 14 16	99 23 76	139 33 36	179 42 96
20 4 80	60 14 40	100 24 00	140 33 60	180 43 20
21 5 04	61 14 64	101 24 24	141 33 84	181 43 44
22 5 28	62 14 88	102 24 48	142 31 08	182 43 68
23 5 52	63 15 12	103 24 72	143 34 32	183 43 92
24 5 76	64 15 36	104 24 96	144 34 56	184 44 16
25 6 00	65 15 60	105 25 20	145 34 80	185 44 40
26 6 24	66 15 84	106 25 44	146 35 04	186 44 64
27 6 48	67 16 08	107 25 68	147 35 28	187 44 88
28 6 72	68 16 32	108 25 92	148 35 52	188 45 12
29 6 96	69 16 56	109 26 16	149 35 76	189 45 36
30 7 20	70 16 80	110 26 40	150 36 00	190 45 60
31 7 44	71 17 04	111 26 64	151 36 24	191 45 84
32 7 68	72 17 28	112 26 88	152 36 48	192 46 08
33 7 92	73 17 52	113 27 12	153 36 72	193 46 32
34 8 16	74 17 76	114 27 36	154 36 96	194 46 56
35 8 40	75 18 00	115 27 60	155 37 20	195 46 80
36 8 64	76 18 24	116 27 84	156 37 44	196 47 04
37 8 88	77 18 48	117 28 08	157 37 68	197 47 38
38 9 12	78 18 72	118 28 32	158 37 92	198 47 52
39 9 36	79 18 96	119 28 56	159 38 16	199 47 76
40 9 60	80 19 20	120 28 80	160 38 40	365 87 60

# NO. 25.

N	N	N	N	N
1 0 25	11 10 25	81 20 25	121 30 25	161 40 25
2 0 50	12 10 50	82 20 50	122 30 50	162 40 50
3 0 75	13 10 75	83 20 75	123 30 75	163 40 75
4 1 00	14 11 00	84 21 00	124 31 00	164 41 00
5 1 25	15 11 25	85 21 25	125 31 25	165 41 25
6 1 50	16 11 50	86 21 50	126 31 50	166 41 50
7 1 75	17 11 75	87 21 75	127 31 75	167 41 75
8 2 00	18 12 00	88 22 00	128 32 00	168 42 00
9 2 25	19 12 25	89 22 25	129 32 25	169 42 25
10 2 50	20 12 50	90 22 50	130 32 50	170 42 50
11 2 75	21 12 75	91 22 75	131 32 75	171 42 75
12 3 00	22 13 00	92 23 00	132 33 00	172 43 00
13 3 25	23 13 25	93 23 25	133 33 25	173 43 25
14 3 50	24 13 50	94 23 50	134 33 50	174 43 50
15 3 75	25 13 75	95 23 75	135 33 75	175 43 75
16 4 00	26 14 00	96 24 00	136 34 00	176 44 00
17 4 25	27 14 25	97 24 25	137 34 25	177 44 25
18 4 50	28 14 50	98 24 50	138 34 50	178 44 50
19 4 75	29 14 75	99 24 75	139 34 75	179 44 75
20 5 00	30 15 00	100 25 00	140 35 00	180 45 00
21 5 25	31 15 25	101 25 25	141 35 25	181 45 25
22 5 50	32 15 50	102 25 50	142 35 50	182 45 50
23 5 75	33 15 75	103 25 75	143 35 75	183 45 75
24 6 00	34 16 00	104 26 00	144 36 00	184 46 00
25 6 25	35 16 25	105 26 25	145 36 25	185 46 25
26 6 50	36 16 50	106 26 50	146 36 50	186 46 50
27 6 75	37 16 75	107 26 75	147 36 75	187 46 75
28 7 00	38 17 00	108 27 00	148 37 00	188 47 00
29 7 25	39 17 25	109 27 25	149 37 25	189 47 25
30 7 50	40 17 50	110 27 50	150 37 50	190 47 50
31 7 75	41 17 75	111 27 75	151 37 75	191 47 75
32 8 00	42 18 00	112 28 00	152 38 00	192 48 00
33 8 25	43 18 25	113 28 25	153 38 25	193 48 25
34 8 50	44 18 50	114 28 50	154 38 50	194 48 50
35 8 75	45 18 75	115 28 75	155 38 75	195 48 75
36 9 00	46 19 00	116 29 00	156 39 00	196 49 00
37 9 25	47 19 25	117 29 25	157 39 25	197 49 25
38 9 50	48 19 50	118 29 50	158 39 50	198 49 50
39 9 75	49 19 75	119 29 75	159 39 75	199 49 75
40 10 00	50 20 00	120 30 00	160 40 00	365 91 25

# NO. 26.

N	N	N	N	N
1 0 26	41 10 66	81 21 06	121 31 46	161 41 86
2 0 52	42 10 92	82 21 32	122 31 72	162 42 12
3 0 78	43 11 18	83 21 58	123 31 98	163 42 38
4 1 04	44 11 44	84 21 84	124 32 24	164 42 64
5 1 30	45 11 70	85 22 10	125 32 50	165 42 90
6 1 56	46 11 96	86 22 36	126 32 76	166 43 16
7 1 82	47 12 22	87 22 62	127 33 02	167 43 42
8 2 08	48 12 48	88 22 88	128 43 28	168 43 68
9 2 34	49 12 74	89 23 14	129 33 54	169 43 94
10 2 60	50 13 00	90 23 40	130 33 80	170 44 20
11 2 86	51 13 26	91 23 66	131 34 06	171 44 46
12 3 12	52 13 52	92 23 92	132 34 32	172 44 72
13 3 38	53 13 78	93 24 18	133 34 58	173 44 98
14 3 64	54 14 04	94 24 44	134 34 84	174 45 24
15 3 90	55 14 30	95 24 70	135 35 10	175 45 50
16 4 16	56 14 56	96 24 96	136 35 36	176 45 76
17 4 42	57 14 82	97 25 22	137 35 62	177 46 02
18 4 68	58 15 08	98 25 48	138 35 88	178 46 28
19 4 94	59 15 34	99 25 74	139 36 14	179 46 54
20 5 20	60 15 60	100 26 00	140 36 40	180 46 80
21 5 46	61 15 86	101 26 26	141 36 66	181 47 06
22 5 72	62 16 12	102 26 52	142 36 92	182 47 32
23 5 98	63 16 38	103 26 78	143 37 18	183 47 58
24 6 24	64 16 64	104 27 04	144 37 44	184 47 84
25 6 50	65 16 90	105 27 30	145 37 70	185 48 10
26 6 76	66 17 16	106 27 56	146 37 96	186 48 36
27 7 02	67 17 42	107 27 82	147 38 22	187 48 62
28 7 28	68 17 68	108 28 08	148 38 48	188 48 88
29 7 54	69 17 94	109 28 34	149 38 74	189 49 14
30 7 80	70 18 20	110 28 60	150 39 00	190 49 40
31 8 06	71 18 46	111 28 86	151 39 26	191 49 66
32 8 32	72 18 72	112 29 12	152 39 52	192 49 92
33 8 58	73 18 98	113 29 38	153 39 78	193 50 18
34 8 84	74 19 24	114 29 64	154 40 04	194 50 44
35 9 10	75 19 50	115 29 90	155 40 30	195 50 70
36 9 36	76 19 76	116 30 16	156 40 56	196 50 96
37 9 62	77 20 02	117 30 42	157 40 82	197 51 22
38 9 88	78 20 28	118 30 68	158 41 08	198 51 48
39 10 14	79 20 54	119 30 94	159 41 34	199 51 74
40 10 40	80 20 80	120 31 20	160 41 60	365 94 90

# NO. 27.

N	N	N	N	N
1	0 27	41 11 07	81 21 87	121 32 67
2	0 54	42 11 34	82 22 14	122 32 94
3	0 81	43 11 61	83 22 41	123 33 21
4	1 08	44 11 88	84 22 68	124 33 48
5	1 35	45 12 15	85 22 95	125 33 75
6	1 62	46 12 42	86 23 22	126 34 02
7	1 89	47 12 69	87 23 49	127 34 29
8	2 16	48 12 96	88 23 76	128 34 56
9	2 43	49 13 23	89 24 03	129 34 83
10	2 70	50 13 50	90 24 30	130 35 10
11	3 97	51 13 77	91 24 57	131 35 37
12	3 24	52 14 04	92 24 84	132 35 64
13	3 51	53 14 31	93 25 11	133 35 91
14	3 78	54 14 58	94 25 38	134 36 18
15	4 05	55 14 85	95 25 65	135 36 45
16	4 32	56 15 12	96 25 92	136 36 72
17	4 59	57 15 39	97 26 19	137 36 99
18	4 86	58 15 66	98 26 46	138 37 26
19	5 13	59 15 93	99 26 73	139 37 53
20	5 40	60 16 20	100 27 00	140 37 80
21	5 67	61 16 47	101 27 27	141 38 07
22	5 94	62 16 74	102 27 54	142 38 34
23	6 21	63 17 01	103 27 81	143 38 61
24	6 48	64 17 28	104 28 08	144 38 88
25	6 75	65 17 55	105 28 35	145 39 15
26	7 02	66 17 82	106 28 62	146 39 42
27	7 29	67 18 09	107 28 89	147 39 69
28	7 56	68 18 36	108 29 16	148 39 96
29	7 83	69 18 63	109 29 43	149 40 23
30	8 10	70 18 90	110 29 70	150 40 50
31	8 37	71 19 17	111 29 97	151 40 77
32	8 64	72 19 44	112 30 24	152 41 04
33	8 91	73 19 71	113 30 51	153 41 31
34	9 18	74 19 98	114 30 78	154 41 58
35	9 45	75 20 25	115 31 05	155 41 85
36	9 72	76 20 52	116 31 32	156 42 12
37	9 99	77 20 79	117 31 59	157 42 39
38	10 26	78 21 06	118 31 86	158 42 66
39	10 53	79 21 33	119 32 13	159 42 93
40	10 80	80 21 60	120 32 40	160 43 20
				161 43 47
				162 43 74
				163 44 01
				164 44 28
				165 44 55
				166 44 82
				167 45 09
				168 45 36
				169 45 63
				170 45 90
				171 46 17
				172 46 44
				173 46 71
				174 46 98
				175 47 25
				176 47 52
				177 47 79
				178 48 06
				179 48 33
				180 48 60
				181 48 87
				182 49 14
				183 49 41
				184 49 68
				185 49 95
				186 50 22
				187 50 49
				188 50 76
				189 51 03
				190 51 30
				191 51 57
				192 51 84
				193 52 11
				194 52 38
				195 52 65
				196 52 92
				197 53 19
				198 53 46
				199 53 73
				200 53 99



# NO. 26.

	N	N	N	N
0 26	11 10 66	81 21 06	121 31 46	161 41 86
0 52	12 10 92	82 21 32	122 31 72	162 42 12
0 78	13 11 18	83 21 58	123 31 98	163 42 38
1 04	14 11 44	84 21 84	124 32 24	164 42 64
1 30	15 11 70	85 22 10	125 32 50	165 42 90
1 56	16 11 96	86 22 36	126 32 76	166 43 16
2 18	17 12 22	87 22 62	127 33 02	167 43 42
2 44	18 12 48	88 22 88	128 43 28	168 43 68
2 70	19 12 74	89 23 14	129 33 54	169 43 94
2 96	20 13 00	90 23 40	130 33 80	170 44 20
3 22	21 13 26	91 23 66	131 34 06	171 44 46
3 48	22 13 52	92 23 92	132 34 32	172 44 72
3 74	23 13 78	93 24 18	133 34 58	173 44 98
4 00	24 14 04	94 24 44	134 34 84	174 45 24
4 26	25 14 30	95 24 70	135 35 10	175 45 50
4 52	26 14 56	96 24 96	136 35 36	176 45 76
4 78	27 14 82	97 25 22	137 35 62	177 46 02
4 104	28 15 08	98 25 48	138 35 88	178 46 28
4 130	29 15 34	99 25 74	139 36 14	179 46 54
4 156	30 15 60	100 26 00	140 36 40	180 46 80
5 18	31 15 86	101 26 26	141 36 66	181 47 06
5 44	32 16 12	102 26 52	142 36 92	182 47 32
5 70	33 16 38	103 26 78	143 37 18	183 47 58
5 96	34 16 64	104 27 04	144 37 44	184 47 84
6 22	35 16 90	105 27 30	145 37 70	185 48 10
6 48	36 17 16	106 27 56	146 37 96	186 48 36
6 74	37 17 42	107 27 82	147 38 22	187 48 62
6 100	38 17 68	108 28 08	148 38 48	188 48 88
6 126	39 17 94	109 28 34	149 38 74	189 49 14
6 152	40 18 20	110 28 60	150 39 00	190 49 40
7 18	41 18 46	111 28 86	151 39 26	191 49 66
7 44	42 18 72	112 29 12	152 39 52	192 49 92
7 70	43 18 98	113 29 38	153 39 78	193 50 18
7 96	44 19 24	114 29 64	154 40 04	194 50 44
8 22	45 19 50	115 29 90	155 40 30	195 50 70
8 48	46 19 76	116 30 16	156 40 56	196 50 96
8 74	47 20 02	117 30 42	157 40 82	197 51 22
8 100	48 20 28	118 30 68	158 41 08	198 51 48
9 126	49 20 54	119 30 94	159 41 34	199 51 74
9 152	50 20 80	120 31 20	160 41 60	200 51 90



# NO. 27.

N	N	N	N	N
1 0 37	41 11 07	81 21 87	121 32 67	161 43 47
2 0 54	42 11 34	82 22 14	122 32 94	162 43 74
3 0 81	43 11 61	83 22 41	123 33 21	163 44 01
4 1 08	44 11 88	84 22 68	124 33 48	164 44 28
5 1 35	45 12 15	85 22 95	125 33 75	165 44 55
6 1 62	46 12 42	86 23 22	126 34 02	166 44 82
7 1 89	47 12 69	87 23 49	127 34 29	167 45 09
8 2 16	48 12 96	88 23 76	128 34 56	168 45 36
9 2 43	49 13 23	89 24 03	129 34 83	169 45 63
10 2 70	50 13 50	90 24 30	130 35 10	170 45 90
11 3 97	51 13 77	91 24 57	131 35 37	171 46 17
12 3 24	52 14 04	92 24 84	132 35 64	172 46 44
13 3 51	53 14 31	93 25 11	133 35 91	173 46 71
14 3 78	54 14 58	94 25 38	134 36 18	174 46 98
15 4 05	55 14 85	95 25 65	135 36 45	175 47 25
16 4 32	56 15 12	96 25 92	136 36 72	176 47 52
17 4 59	57 15 39	97 26 19	137 36 99	177 47 79
18 4 86	58 15 66	98 26 46	138 37 26	178 48 06
19 5 13	59 15 93	99 26 73	139 37 53	179 48 33
20 5 40	60 16 20	100 27 00	140 37 80	180 48 60
21 5 67	61 16 47	101 27 27	141 38 07	181 48 87
22 5 94	62 16 74	102 27 54	142 38 34	182 49 14
23 6 21	63 17 01	103 27 81	143 38 61	183 49 41
24 6 48	64 17 28	104 28 08	144 38 88	184 49 68
25 6 75	65 17 55	105 28 35	145 39 15	185 49 95
26 7 02	66 17 82	106 28 62	146 39 42	186 50 22
27 7 29	67 18 09	107 28 89	147 39 69	187 50 49
28 7 56	68 18 36	108 29 16	148 39 96	188 50 76
29 7 83	69 18 63	109 29 43	149 40 23	189 51 03
30 8 10	70 18 90	110 29 70	150 40 50	190 51 30
31 8 37	71 19 17	111 29 97	151 40 77	191 51 57
32 8 64	72 19 44	112 30 24	152 41 04	192 51 84
33 8 91	73 19 71	113 30 51	153 41 31	193 52 11
34 9 18	74 19 98	114 30 78	154 41 58	194 52 38
35 9 45	75 20 25	115 31 05	155 41 85	195 52 65
36 9 72	76 20 52	116 31 32	156 42 12	196 52 92
37 9 99	77 20 79	117 31 59	157 42 39	197 53 19
38 10 26	78 21 06	118 31 86	158 42 66	198 53 46
39 10 53	79 21 33	119 32 13	159 42 93	199 53 73
40 10 80	80 21 60	120 32 40	160 43 20	200 53 98

# NO. 22.

J	N	N	N	N	N
1	0 28	41 11 48	81 22 68	121 33 88	161 45 08
2	0 56	42 11 76	82 22 96	122 34 16	162 45 36
3	0 84	43 12 04	83 23 24	123 34 44	163 45 64
4	1 12	44 12 32	84 23 52	124 34 72	164 45 92
5	1 40	45 12 60	85 23 80	125 35 00	165 46 20
6	1 68	46 12 88	86 24 08	126 35 28	166 46 48
7	1 96	47 13 16	87 24 36	127 35 56	167 46 76
8	2 24	48 13 44	88 24 64	128 35 84	168 47 04
9	2 52	49 13 72	89 24 92	129 36 12	169 47 32
10	2 80	50 14 00	90 25 20	130 36 40	170 47 60
11	3 08	51 14 28	91 25 48	131 36 68	171 47 88
12	3 36	52 14 56	92 25 76	132 36 96	172 48 16
13	3 64	53 14 84	93 26 04	133 37 24	173 48 44
14	3 92	54 15 12	94 26 32	134 37 52	174 48 72
15	4 20	55 15 40	95 26 60	135 37 80	175 49 00
16	4 48	56 15 68	96 26 88	136 38 08	176 49 28
17	4 76	57 15 96	97 27 16	137 38 36	177 49 56
18	5 04	58 16 24	98 27 44	138 38 64	178 49 84
19	5 32	59 16 52	99 27 72	139 38 92	179 50 12
20	5 60	60 16 80	100 28 00	140 39 20	180 50 40
21	5 88	61 17 08	101 28 28	141 39 48	181 50 68
22	6 16	62 17 36	102 28 56	142 39 76	182 50 96
23	6 44	63 17 64	103 28 84	143 40 04	183 51 24
24	6 72	64 17 92	104 29 12	144 40 32	184 51 52
25	7 00	65 18 20	105 29 40	145 40 60	185 51 80
26	7 28	66 18 48	106 29 68	146 40 88	186 52 08
27	7 56	67 18 76	107 29 96	147 41 16	187 52 36
28	7 84	68 19 04	108 30 24	148 41 44	188 52 64
29	8 12	69 19 32	109 30 52	149 41 72	189 52 92
30	8 40	70 19 60	110 30 80	150 42 00	190 53 20
31	8 68	71 19 88	111 31 08	151 42 28	191 53 48
32	8 96	72 20 16	112 31 36	152 42 56	192 53 76
33	9 24	73 20 44	113 31 64	153 42 84	193 54 04
34	9 52	74 20 72	114 31 92	154 43 12	194 54 32
35	9 80	75 21 00	115 32 20	155 43 40	195 54 60
36	10 08	76 21 28	116 32 48	156 43 68	196 54 88
37	10 36	77 21 56	117 32 76	157 43 96	197 55 16
38	10 64	78 21 84	118 33 04	158 44 24	198 55 44
39	10 92	79 22 12	119 33 32	159 44 52	199 55 72
40	11 20	80 22 40	120 33 60	160 44 80	200 56 00

# NO. 29.

N

N

N

N

N

1	0	29	41	11	89	81	22	49	121	35	09	161	46	69
2	0	58	42	12	18	82	23	78	122	35	38	162	46	98
3	0	87	43	12	47	83	24	07	123	35	67	163	47	27
4	1	16	44	12	76	84	24	36	124	35	96	164	47	56
5	1	45	45	13	05	85	24	65	125	36	25	165	47	85
6	1	74	46	13	34	86	24	94	126	36	54	166	48	14
7	2	03	47	13	63	87	25	23	127	36	83	167	48	43
8	2	32	48	13	92	88	25	52	128	37	12	168	48	72
9	2	61	49	14	21	89	25	81	129	37	41	169	49	01
10	2	90	50	14	50	90	26	10	130	37	70	170	49	30
11	3	19	51	14	79	91	26	39	131	37	99	171	49	59
12	3	48	52	15	08	92	26	68	132	38	28	172	49	88
13	3	77	53	15	37	93	26	97	133	38	57	173	50	17
14	4	06	54	15	66	94	27	26	134	38	86	174	50	46
15	4	35	55	15	95	95	27	55	135	39	15	175	50	75
16	4	64	56	16	24	96	27	84	136	39	44	176	51	04
17	4	93	57	16	53	97	28	13	137	39	73	177	51	33
18	5	22	58	16	82	98	28	42	138	40	02	178	51	62
19	5	51	59	17	11	99	28	71	139	40	31	179	51	91
20	5	80	60	17	40	100	29	00	140	40	60	180	52	20
21	6	09	61	17	69	101	29	29	141	40	89	181	52	49
22	6	38	62	17	98	102	29	58	142	41	18	182	52	78
23	6	67	63	18	27	103	29	87	143	41	47	183	53	07
24	6	96	64	18	56	104	30	16	144	41	76	184	53	36
25	7	25	65	18	85	105	30	45	145	42	05	185	53	65
26	7	54	66	19	14	106	30	74	146	42	34	186	53	94
27	7	83	67	19	43	107	31	03	147	42	63	187	54	23
28	8	12	68	19	72	108	31	32	148	42	92	188	54	52
29	8	41	69	20	01	109	31	61	149	43	21	189	54	81
30	8	70	70	20	30	110	31	90	150	43	50	190	55	10
31	8	99	71	20	59	111	32	19	151	43	79	191	55	39
32	9	28	72	20	88	112	32	48	152	44	08	192	55	68
33	9	57	73	21	17	113	32	77	153	44	37	193	55	97
34	9	86	74	21	46	114	33	06	154	44	66	194	56	26
35	10	15	75	21	75	115	33	35	155	44	95	195	56	55
36	10	44	76	22	04	116	33	64	156	45	24	196	56	84
37	10	73	77	22	33	117	33	93	157	45	53	197	57	13
38	11	02	78	22	62	118	34	22	158	45	82	198	57	42
39	11	31	79	22	91	119	34	51	159	46	11	199	57	71
40	11	60	80	23	20	120	34	80	160	46	40	365	105	85

G

# NO. 30,

N	N	N	N	N
1	0 30	41 12 30	81 24 30	121 36 30
2	0 60	42 12 60	82 24 60	122 36 60
3	0 90	43 12 90	83 24 90	123 36 90
4	1 20	44 13 20	84 25 20	124 37 20
5	1 50	45 13 50	85 25 50	125 37 50
6	1 80	46 13 80	86 25 80	126 37 80
7	2 10	47 14 10	87 26 10	127 38 10
8	2 40	48 14 40	88 26 40	128 38 40
9	2 70	49 14 70	89 26 70	129 38 70
10	3 00	50 15 00	90 27 00	130 39 00
11	3 30	51 15 30	91 27 30	131 39 30
12	3 60	52 15 60	92 27 60	132 39 60
13	3 90	53 15 90	93 27 90	133 39 90
14	4 20	54 16 20	94 28 20	134 40 20
15	4 50	55 16 50	95 28 50	135 40 50
16	4 80	56 16 80	96 28 80	136 40 80
17	5 10	57 17 10	97 29 10	137 41 10
18	5 40	58 17 40	98 29 40	138 41 40
19	5 70	59 17 70	99 29 70	139 41 70
20	6 00	60 18 00	100 30 00	140 42 00
21	6 30	61 18 30	101 30 30	141 42 30
22	6 60	62 18 60	102 30 60	142 42 60
23	6 90	63 18 90	103 30 90	143 42 90
24	7 20	64 19 20	104 31 20	144 43 20
25	7 50	65 19 50	105 31 50	145 43 50
26	7 80	66 19 80	106 31 80	146 43 80
27	8 10	67 20 10	107 32 10	147 44 10
28	8 40	68 20 40	108 32 40	148 44 40
29	8 70	69 20 70	109 32 70	149 44 70
30	9 00	70 21 00	110 33 00	150 45 00
31	9 30	71 21 30	111 33 30	151 45 30
32	9 60	72 21 60	112 33 60	152 45 60
33	9 90	73 21 90	113 33 90	153 45 90
34	10 20	74 22 20	114 34 20	154 46 20
35	10 50	75 22 50	115 34 50	155 46 50
36	10 80	76 22 80	116 34 80	156 46 80
37	11 10	77 23 10	117 35 10	157 47 10
38	11 40	78 23 40	118 35 40	158 47 40
39	11 70	79 23 70	119 35 70	159 47 70
40	12 00	80 24 00	120 36 00	160 48 00
				161 48 30
				162 48 60
				163 48 90
				164 49 20
				165 49 50
				166 49 80
				167 50 10
				168 50 40
				169 50 70
				170 51 00
				171 51 30
				172 51 60
				173 51 90
				174 52 20
				175 52 50
				176 52 80
				177 53 10
				178 53 40
				179 53 70
				180 54 00
				181 54 30
				182 54 60
				183 54 90
				184 55 20
				185 55 50
				186 55 80
				187 56 10
				188 56 40
				189 56 70
				190 57 00
				191 57 30
				192 57 60
				193 57 90
				194 58 20
				195 58 50
				196 58 80
				197 59 10
				198 59 40
				199 59 70
				200 60 00

# NO. 31.

N	N	N	N	N
1	0 31	41 12 71	81 25 11	121 37 51
2	0 62	42 13 02	82 25 42	122 37 82
3	0 93	43 13 33	83 25 73	123 38 13
4	1 24	44 13 64	84 26 04	124 38 44
5	1 55	45 13 95	85 26 35	125 38 75
6	1 86	46 14 26	86 26 66	126 39 06
7	2 17	47 14 57	87 26 97	127 39 37
8	2 48	48 14 88	88 27 28	128 39 68
9	2 79	49 15 19	89 27 59	129 39 99
10	3 10	50 15 50	90 27 90	130 40 30
11	3 41	51 15 81	91 28 21	131 40 61
12	3 72	52 16 12	92 28 52	132 40 92
13	4 03	53 16 43	93 28 83	133 41 23
14	4 34	54 16 74	94 29 14	134 41 54
15	4 65	55 17 05	95 29 45	135 41 85
16	4 96	56 17 36	96 29 76	136 42 16
17	5 27	57 17 67	97 30 07	137 42 47
18	5 58	58 17 98	98 30 38	138 42 78
19	5 89	59 18 29	99 30 69	139 43 09
20	6 20	60 18 60	100 31 00	140 43 40
21	6 51	61 18 91	101 31 31	141 43 71
22	6 82	62 19 22	102 31 62	142 44 02
23	7 13	63 19 53	103 31 93	143 44 33
24	7 44	64 19 84	04 32 24	144 44 64
25	7 75	65 20 15	105 32 55	145 44 95
26	8 06	66 20 46	106 32 86	146 45 26
27	8 37	67 20 77	107 33 17	147 45 57
28	8 68	68 21 08	108 33 48	148 45 88
29	8 99	69 21 39	109 33 79	149 46 19
30	9 30	70 21 70	110 34 10	150 46 50
31	9 61	71 22 01	111 34 41	151 46 81
32	9 92	72 22 32	112 34 72	152 47 12
33	10 23	73 22 63	113 35 03	153 47 43
34	10 54	74 22 94	114 35 34	154 47 74
35	10 85	75 23 25	115 35 65	155 48 05
36	11 16	76 23 56	116 35 96	156 48 36
37	11 47	77 23 87	117 36 27	157 48 67
38	11 78	78 24 18	118 36 58	158 48 98
39	12 09	79 24 49	119 36 89	159 49 29
40	12 40	80 24 80	120 37 20	160 49 60
				365 113



# NO. 32.

N	N	N	N	N
1 0 32	4 3 12	81 25 92	121 38 75	161 51 52
2 0 64	4 13 44	82 26 24	122 39 04	162 51 84
3 0 96	4 13 76	83 26 56	123 39 36	163 52 16
4 1 28	4 14 08	84 26 88	124 39 68	164 52 48
5 1 60	4 14 40	85 27 20	125 40 00	165 52 80
6 1 92	4 14 72	86 27 52	126 40 32	166 53 12
7 2 24	4 15 04	87 27 84	127 40 64	167 53 44
8 2 56	4 15 36	88 28 16	128 40 96	168 53 76
9 2 88	4 15 68	89 28 48	129 41 28	169 54 08
10 3 20	5 16 00	90 28 80	130 41 60	170 54 40
11 3 52	5 16 32	91 29 1	131 41 92	171 54 72
12 3 84	5 16 64	92 29 4	132 42 24	172 55 04
13 4 16	5 16 96	93 29 76	133 42 56	173 55 36
14 4 48	5 17 28	94 30 08	134 42 88	174 55 68
15 4 80	5 17 60	95 30 40	135 43 20	175 56 00
16 5 12	5 17 92	96 30 72	136 43 52	176 56 32
17 5 44	5 18 24	97 31 0	137 43 84	177 56 64
18 5 76	5 18 56	98 31 32	138 44 16	178 56 96
19 6 08	5 18 88	99 31 64	139 44 48	179 57 28
20 6 40	6 19 20	100 32 00	140 44 80	180 57 60
21 6 72	6 19 52	101 32 32	141 45 12	181 57 92
22 7 04	6 19 84	102 32 64	142 45 44	182 58 24
23 7 36	6 20 16	103 32 96	143 45 76	183 58 56
24 7 68	6 20 48	104 33 28	144 46 08	184 58 88
25 8 00	6 20 80	105 33 60	145 46 40	185 59 20
26 8 32	6 21 12	106 33 92	146 46 72	186 59 52
27 8 64	6 21 44	107 34 24	147 47 04	187 59 84
28 8 96	6 21 76	108 34 56	148 47 36	188 60 16
29 9 28	6 22 08	109 34 88	149 47 68	189 60 48
30 9 60	7 22 40	110 35 20	150 48 00	190 60 80
31 9 92	7 22 72	111 35 52	151 48 32	191 61 12
32 10 24	7 23 04	112 35 84	152 48 64	192 61 44
33 10 56	7 23 36	113 36 16	153 48 96	193 61 76
34 10 88	7 23 68	114 36 48	154 49 28	194 62 08
35 11 20	7 24 00	115 36 80	155 49 60	195 62 40
36 11 52	7 24 32	116 37 12	156 49 92	196 62 72
37 11 84	7 24 64	117 37 44	157 50 24	197 63 04
38 12 16	7 24 96	118 37 76	158 50 56	198 63 36
39 12 48	7 25 28	119 38 08	159 50 88	199 63 68
40 12 80	8 25 60	120 38 40	160 51 20	365 116 80

# NO. 33.

N	N	N	N	N
1 0 33	41 13 53	81 26 73	121 39 93	161 53 18
2 0 66	42 13 86	82 27 06	122 40 26	162 53 46
3 0 99	43 14 19	83 27 39	123 40 59	163 53 79
4 1 32	44 14 52	84 27 72	124 40 92	164 54 12
5 1 65	45 14 85	85 28 05	125 41 25	165 54 45
6 1 98	46 15 18	86 28 38	126 41 58	166 54 78
7 2 31	47 15 51	87 28 71	127 41 91	167 55 11
8 2 64	48 15 84	88 29 04	128 42 24	168 55 44
9 2 97	49 16 17	89 29 37	129 42 57	169 55 77
10 3 30	50 16 50	90 29 70	130 42 90	170 56 10
11 3 63	51 16 83	91 30 03	131 43 23	171 56 43
12 3 96	52 17 16	92 30 36	132 43 56	172 56 76
13 4 29	53 17 49	93 30 69	133 43 89	173 57 09
14 4 62	54 17 82	94 31 02	134 44 22	174 57 42
15 4 95	55 18 15	95 31 35	135 44 55	175 57 75
16 5 28	56 18 48	96 31 68	136 44 88	176 58 08
17 5 61	57 18 81	97 32 01	137 45 21	177 58 41
18 5 94	58 19 14	98 32 34	138 45 54	178 58 74
19 6 27	59 19 47	99 32 67	139 45 87	179 59 07
20 6 60	60 19 80	100 33 00	140 46 20	180 59 40
21 6 93	61 20 13	101 33 33	141 46 53	181 59 73
22 7 26	62 20 46	102 33 66	142 46 86	182 60 06
23 7 59	63 20 79	103 33 99	143 47 19	183 60 39
24 7 92	64 21 12	104 34 32	144 47 52	184 60 72
25 8 25	65 21 45	105 34 65	145 47 85	185 61 05
26 8 58	66 21 78	106 34 98	146 48 18	186 61 38
27 8 91	67 22 11	107 35 31	147 48 51	187 61 71
28 9 24	68 22 44	108 35 64	148 48 84	188 62 04
29 9 57	69 22 77	109 35 97	149 49 17	189 62 37
30 9 90	70 23 10	110 36 30	150 49 50	190 62 70
31 10 23	71 23 43	111 36 63	151 49 83	191 63 03
32 10 56	72 23 76	112 36 96	152 50 16	192 63 36
33 10 89	73 24 09	113 37 29	153 50 49	193 63 69
34 11 22	74 24 42	114 37 62	154 50 82	194 64 02
35 11 55	75 24 75	115 37 95	155 51 15	195 64 35
36 11 88	76 25 08	116 38 28	156 51 48	196 64 68
37 12 21	77 25 41	117 38 61	157 51 81	197 65 01
38 12 54	78 25 74	118 38 94	158 52 14	198 65 34
39 12 87	79 26 07	119 39 27	159 52 47	199 65 67
40 13 20	80 26 40	120 39 60	160 52 80	200 66 00

# NO. 34.

N	N	N	N	N
1 0 34	41 13 94	81 27 54	121 41 14	161 54 74
2 0 68	42 14 28	82 27 88	122 41 48	162 55 08
3 1 02	43 14 62	83 28 22	123 41 82	163 55 42
4 1 36	44 14 96	84 28 56	124 42 16	164 55 76
5 1 70	45 15 30	85 28 90	125 42 50	165 56 10
6 2 04	46 15 64	86 29 24	126 42 84	166 56 44
7 2 38	47 15 98	87 29 58	127 43 18	167 56 78
8 2 72	48 16 32	88 29 92	128 43 52	168 57 12
9 3 06	49 16 66	89 30 26	129 43 86	169 57 46
10 3 40	50 16 00	90 30 60	130 44 20	170 57 80
11 3 74	51 17 34	91 30 94	131 44 54	171 58 14
12 4 08	52 17 68	92 31 28	132 44 88	172 58 48
13 4 42	53 18 02	93 31 62	133 45 22	173 58 82
14 4 76	54 18 36	94 31 96	134 45 56	174 59 16
15 5 10	55 18 70	95 32 30	135 45 90	175 59 50
16 5 44	56 19 04	96 32 64	136 46 24	176 59 84
17 5 78	57 19 38	97 32 98	137 46 58	177 60 18
18 6 12	58 19 72	98 33 32	138 46 92	178 60 52
19 6 46	59 20 06	99 33 66	139 47 26	179 60 86
20 6 80	60 20 40	100 34 00	140 47 60	180 61 20
21 7 14	61 20 74	101 34 34	141 47 94	181 61 54
22 7 48	62 21 08	102 34 68	142 48 28	182 61 88
23 7 82	63 21 42	103 35 02	143 48 62	183 62 22
24 8 16	64 21 76	104 35 36	144 48 96	184 62 56
25 8 50	65 22 10	105 35 70	145 49 30	185 62 90
26 8 84	66 22 44	106 36 04	146 49 64	186 63 24
27 9 18	67 22 78	107 36 38	147 49 98	187 63 58
28 9 52	68 23 12	108 36 72	148 50 32	188 63 92
29 9 86	69 23 46	109 37 06	149 50 66	189 64 26
30 10 20	70 23 80	110 37 40	150 51 00	190 64 60
31 10 54	71 24 14	111 37 74	151 51 34	191 64 94
32 10 88	72 24 48	112 38 08	152 51 68	192 65 28
33 11 22	73 24 82	113 38 42	153 52 02	193 65 62
34 11 56	74 25 16	114 38 76	154 52 36	194 65 96
35 11 90	75 25 50	115 39 10	155 52 70	195 66 30
36 12 24	76 25 84	116 39 44	156 53 04	196 66 64
37 12 58	77 26 18	117 39 78	157 53 38	197 66 98
38 12 92	78 26 52	118 40 12	158 53 72	198 67 32
39 13 26	79 26 86	119 40 46	159 54 06	199 67 66
40 13 60	80 27 20	120 40 80	160 54 40	200 68 00



# NO. 35.

N	N	N	N	N
1 0 35	41 14 35	81 28 35	121 42 35	161 56 35
2 0 70	42 14 70	82 28 70	122 42 70	162 56 70
3 1 05	43 15 05	83 29 05	123 43 05	163 57 05
4 1 40	44 15 40	84 29 40	124 43 40	164 57 40
5 1 75	45 15 75	85 29 75	125 43 75	165 57 75
6 2 10	46 16 10	86 30 10	126 44 10	166 58 10
7 2 45	47 16 45	87 30 45	127 44 45	167 58 45
8 2 80	48 16 80	88 30 80	128 44 80	168 58 80
9 3 15	49 17 15	89 31 15	129 45 15	169 59 15
10 3 50	50 17 50	90 31 50	130 45 50	170 59 50
11 3 85	51 17 85	91 31 85	131 45 85	171 59 85
12 4 20	52 18 20	92 32 20	132 46 20	172 60 20
13 4 55	53 18 55	93 32 55	133 46 55	173 60 55
14 4 90	54 18 90	94 32 90	134 46 90	174 60 90
15 5 25	55 19 25	95 33 25	135 47 25	175 61 25
16 5 60	56 19 60	96 33 60	136 47 60	176 61 60
17 5 95	57 19 95	97 33 95	137 47 95	177 61 95
18 6 30	58 20 30	98 34 30	138 48 30	178 62 30
19 6 65	59 20 65	99 34 65	139 48 65	179 62 65
20 7 00	60 21 00	100 35 00	140 49 00	180 63 00
21 7 35	61 21 35	101 35 35	141 49 35	181 63 35
22 7 70	62 21 70	102 35 70	142 49 70	182 63 70
23 8 05	63 22 05	103 36 05	143 50 05	183 64 05
24 8 40	64 22 40	104 36 40	144 50 40	184 64 40
25 8 75	65 22 75	105 36 75	145 50 75	185 64 75
26 9 10	66 23 10	106 37 10	146 51 10	186 65 10
27 9 45	67 23 45	107 37 45	147 51 45	187 65 45
28 9 80	68 23 80	108 37 80	148 51 80	188 65 80
29 10 15	69 24 15	109 38 15	149 52 15	189 66 15
30 10 50	70 24 50	110 38 50	150 52 50	190 66 50
31 10 85	71 24 85	111 38 85	151 52 85	191 66 85
32 11 20	72 25 20	112 39 20	152 53 20	192 67 20
33 11 55	73 25 55	113 39 55	153 53 55	193 67 55
34 11 90	74 25 90	114 39 90	154 53 90	194 67 90
35 12 25	75 26 25	115 40 25	155 54 25	195 68 25
36 12 60	76 26 60	116 40 60	156 54 60	196 68 60
37 12 95	77 26 95	117 40 95	157 55 95	197 68 95
38 13 30	78 27 30	118 41 30	158 55 30	198 69 30
39 13 65	79 27 65	119 41 65	159 55 65	199 69 65
40 14 00	80 28 00	120 42 00	160 56 00	200 69 00

# NO. 36.

N

N

N

N

N

1	0	36	11	14	76	81	29	16	121	43	56	161	57	96
2	0	72	12	15	12	82	29	52	122	43	92	162	58	32
3	1	08	13	15	48	83	29	88	123	44	28	163	58	68
4	1	44	14	15	84	84	30	24	124	44	64	164	59	04
5	1	80	15	16	20	85	30	60	125	45	00	165	59	40
6	2	16	16	16	56	86	30	96	126	45	36	166	59	76
7	2	52	17	16	92	87	31	32	127	45	72	167	60	12
8	2	88	18	17	28	88	31	68	128	46	08	168	60	48
9	3	24	19	17	64	89	32	04	129	46	44	169	60	84
10	3	60	20	18	00	90	32	40	130	46	80	170	61	20
11	3	96	21	18	36	91	32	76	131	47	16	171	61	56
12	4	32	22	18	72	92	33	12	132	47	52	172	61	92
13	4	68	23	19	08	93	33	48	133	47	88	173	62	28
14	5	04	24	19	44	94	33	84	134	48	24	174	62	64
15	5	40	25	19	80	95	34	20	135	48	60	175	63	00
16	5	76	26	20	16	96	34	56	136	48	96	176	63	36
17	6	12	27	20	52	97	34	92	137	49	32	177	63	72
18	6	48	28	20	88	98	35	28	138	49	68	178	64	08
19	6	84	29	21	24	99	35	64	139	50	04	179	64	44
20	7	20	30	21	60	100	36	00	140	50	40	180	64	80
21	7	56	31	21	96	101	36	36	141	50	76	181	65	16
22	7	92	32	22	32	102	36	72	142	51	12	182	65	52
23	8	28	33	22	68	103	37	08	143	51	48	183	65	88
24	8	64	34	23	04	104	37	44	144	51	84	184	66	24
25	9	00	35	23	40	105	37	80	145	52	20	185	66	60
26	9	36	36	23	76	106	38	16	146	52	56	186	66	96
27	9	72	37	24	12	107	38	52	147	52	92	187	67	32
28	10	08	38	24	48	108	38	88	148	53	28	188	67	68
29	10	44	39	24	84	109	39	24	149	53	64	189	68	04
30	10	80	40	25	20	110	39	60	150	54	00	190	68	40
31	11	16	41	25	56	111	39	96	151	54	36	191	68	76
32	11	52	42	25	92	112	40	32	152	54	72	192	69	12
33	11	88	43	26	28	113	40	68	153	55	08	193	69	48
34	12	24	44	26	64	114	41	04	154	55	44	194	69	84
35	12	60	45	27	00	115	41	40	155	55	80	195	70	20
36	12	96	46	27	36	116	41	76	156	56	16	196	70	56
37	13	32	47	27	72	117	42	12	157	56	52	197	79	92
38	13	68	48	28	08	118	42	48	158	56	88	198	71	28
39	14	04	49	28	44	119	42	84	159	57	24	199	71	64
40	14	40	50	28	80	120	43	20	160	57	60	200	71	00

# NO. 37.

N N N N N

1	0	37	41	13	17	81	19	97	121	44	77	161	59	57
2	0	74	42	15	54	82	30	34	122	45	14	162	59	94
3	1	11	43	15	91	83	30	71	123	45	51	163	60	31
4	1	48	44	16	28	84	31	08	124	45	88	164	60	68
5	1	85	45	16	65	85	31	45	125	46	25	165	61	05
6	2	22	46	17	02	86	31	82	126	46	62	166	61	42
7	2	59	47	17	39	87	32	19	127	46	99	167	61	79
8	2	96	48	17	70	88	32	56	128	47	36	168	62	16
9	3	33	49	18	13	89	32	93	129	47	73	169	62	53
10	3	70	50	18	50	90	33	30	130	48	10	170	62	90
11	4	07	51	18	87	91	33	67	131	48	47	171	63	27
12	4	44	52	19	24	92	34	04	132	48	84	172	63	64
13	4	81	53	19	61	93	34	41	133	49	21	173	64	01
14	5	18	54	19	98	94	34	78	134	49	58	174	64	38
15	5	55	55	20	35	95	35	15	135	49	95	175	64	75
16	5	92	56	20	72	96	35	52	136	50	32	176	65	12
17	6	29	57	21	09	97	35	89	137	50	69	177	65	49
18	6	66	58	21	46	98	36	26	138	51	06	178	65	86
19	7	03	59	21	83	99	36	63	139	51	43	179	66	23
20	7	40	60	22	20	100	37	00	140	51	80	180	66	60
21	7	77	61	22	57	101	37	37	141	52	17	181	66	97
22	8	14	62	22	94	102	37	74	142	52	54	182	67	34
23	8	51	63	23	31	103	38	11	143	52	91	183	67	71
24	8	88	64	23	68	104	38	48	144	53	28	184	68	08
25	9	25	65	24	05	105	38	85	145	53	65	185	68	45
26	9	62	66	24	42	106	39	22	146	54	02	186	68	82
27	9	99	67	24	79	107	39	59	147	54	39	187	69	19
28	10	36	68	25	16	108	39	96	148	54	76	188	69	56
29	10	73	69	25	53	109	40	33	149	55	13	189	69	93
30	11	10	70	25	90	110	40	70	150	55	50	190	70	30
31	11	47	71	26	27	111	41	07	151	55	87	191	70	67
32	11	84	72	26	64	112	41	44	152	56	24	192	71	04
33	12	21	73	27	01	113	41	81	153	56	61	193	71	41
34	12	58	74	27	38	114	42	18	154	56	98	194	71	78
35	12	95	75	27	75	115	42	55	155	57	35	195	72	15
36	13	32	76	28	12	116	42	92	156	57	72	196	72	52
37	13	69	77	28	49	117	43	29	157	58	09	197	72	89
38	14	06	78	28	86	118	43	66	158	58	46	198	73	26
39	14	43	79	29	23	119	44	03	159	58	83	199	73	63
40	14	80	80	29	60	120	44	40	160	59	20	365	135	05



# NO. 38.

N	N	N	N	N
1 0 38	41 15 58	81 30 78	121 45 98	161 61 18
2 0 78	42 15 96	82 31 16	122 46 36	162 61 56
3 1 14	43 16 34	83 31 54	123 46 74	163 61 94
4 1 52	44 16 72	84 31 92	124 47 12	164 62 32
5 1 90	45 17 10	85 32 30	125 47 50	165 62 70
6 2 28	46 17 48	86 32 68	126 47 88	166 63 08
7 2 66	47 17 86	87 33 06	127 48 26	167 63 46
8 3 04	48 18 24	88 33 44	128 48 64	168 63 84
9 3 42	49 18 62	89 33 82	129 49 02	169 64 22
10 3 80	50 19 00	90 34 20	130 49 40	170 64 60
11 4 18	51 19 38	91 34 58	131 49 78	171 64 98
12 4 56	52 19 76	92 34 96	132 50 16	172 65 36
13 4 94	53 20 14	93 35 34	133 50 54	173 65 74
14 5 32	54 20 52	94 35 72	134 50 92	174 66 12
15 5 70	55 20 90	95 36 10	135 51 30	175 66 50
16 6 08	56 21 28	96 36 48	136 51 68	176 66 88
17 6 46	57 21 66	97 36 86	137 52 06	177 67 26
18 6 84	58 22 04	98 37 24	138 52 44	178 67 64
19 7 22	59 22 42	99 37 62	139 52 82	179 68 02
20 7 60	60 22 80	100 38 00	140 53 20	180 68 40
21 7 98	61 23 18	101 38 38	141 53 58	181 68 78
22 8 36	62 23 56	102 38 76	142 53 96	182 69 16
23 8 74	63 23 94	103 39 14	143 54 34	183 69 54
24 9 12	64 24 32	104 39 52	144 54 72	184 69 92
25 9 50	65 24 70	105 39 90	145 55 10	185 70 30
26 9 88	66 25 08	106 40 28	146 55 48	186 70 68
27 10 26	67 25 46	107 40 66	147 55 86	187 71 06
28 10 64	68 25 84	108 41 04	148 56 24	188 71 44
29 11 02	69 26 22	109 41 42	149 56 62	189 71 82
30 11 40	70 26 60	110 41 80	150 57 00	190 72 20
31 11 78	71 26 98	111 42 18	151 57 38	191 72 58
32 12 16	72 27 36	112 42 56	152 57 76	192 72 96
33 12 54	73 27 74	113 42 94	153 58 14	193 73 34
34 12 92	74 28 12	114 43 32	154 58 52	194 73 72
35 13 30	75 28 50	115 43 70	155 58 90	195 74 10
36 13 68	76 28 88	116 44 08	156 59 28	196 74 48
37 14 06	77 29 26	117 44 46	157 59 66	197 74 86
38 14 44	78 29 64	118 44 84	158 60 04	198 75 24
39 14 82	79 30 02	119 45 22	159 60 42	199 75 62
40 15 20	80 30 40	120 45 60	160 60 80	200 76 00

# NO. 39

N	N	N	N	N
1 0 39	41 15 99	81 31 59	121 47 19	161 62 79
2 0 78	42 16 38	82 31 98	122 47 58	162 63 18
3 1 17	43 16 77	83 32 37	123 47 97	163 63 57
4 1 56	44 17 16	84 32 76	124 48 36	164 63 96
5 1 95	45 17 55	85 33 15	125 48 75	165 64 35
6 2 34	46 17 94	86 33 54	126 49 14	166 64 74
7 2 73	47 18 33	87 33 93	127 49 53	167 65 13
8 3 12	48 18 72	88 34 32	128 49 92	168 65 52
9 3 51	49 19 11	89 34 71	129 50 31	169 65 91
10 3 90	50 19 50	90 35 10	130 50 70	170 66 30
11 4 29	51 19 89	91 35 49	131 51 09	171 66 69
12 4 68	52 20 28	92 35 88	132 51 48	172 67 08
13 5 07	53 20 67	93 36 27	133 51 87	173 67 47
14 5 46	54 21 06	94 36 66	134 52 26	174 67 86
15 5 85	55 21 45	95 37 05	135 52 65	175 68 25
16 6 24	56 21 84	96 37 44	136 53 04	176 68 64
17 6 63	57 22 23	97 37 83	137 53 43	177 69 03
18 7 02	58 22 62	98 38 22	138 53 82	178 69 42
19 7 41	59 23 01	99 38 61	139 54 21	179 69 81
20 7 80	60 23 40	100 39 00	140 54 60	180 70 20
21 8 19	61 23 79	101 39 39	141 54 99	181 70 59
22 8 58	62 24 18	102 39 78	142 55 38	182 70 98
23 8 97	63 24 57	103 40 17	143 55 77	183 71 37
24 9 36	64 24 96	104 40 56	144 56 16	184 71 76
25 9 75	65 25 35	105 40 95	145 56 55	185 72 15
26 10 14	66 25 74	106 41 34	146 56 94	186 72 54
27 10 53	67 26 13	107 41 73	147 57 33	187 72 93
28 10 92	68 26 52	108 42 12	148 57 72	188 73 32
29 11 31	69 26 91	109 42 51	149 58 11	189 73 71
30 11 70	70 27 30	110 42 90	150 58 50	190 74 10
31 12 09	71 27 69	111 43 29	151 58 89	191 74 49
32 12 48	72 28 08	112 43 68	152 59 28	192 74 88
33 12 87	73 28 47	113 44 07	153 59 67	193 75 27
34 13 26	74 28 86	114 44 46	154 60 06	194 75 66
35 13 65	75 29 25	115 44 85	155 60 45	195 76 05
36 14 04	76 29 64	116 45 24	156 60 84	196 76 44
37 14 43	77 30 03	117 45 63	157 61 23	197 76 83
38 14 82	78 30 42	118 46 02	158 61 62	198 77 22
39 15 21	79 30 81	119 46 41	159 62 01	199 77 61
40 15 60	80 31 20	120 46 80	160 62 40	200 78 00

# NO. 40.

N		N		N		N		N	
1	0 40	41	16 40	81	32 40	121	48 40	161	64 40
2	0 80	42	16 80	82	32 80	122	48 80	162	64 80
3	1 20	43	17 20	83	33 20	123	49 20	163	65 20
4	1 60	44	17 60	84	33 60	124	49 60	164	65 60
5	2 00	45	18 00	85	34 00	125	50 00	165	66 00
6	2 40	46	18 40	86	34 40	126	50 40	166	66 40
7	2 80	47	18 80	87	34 80	127	50 80	167	66 80
8	3 20	48	19 20	88	35 20	128	51 20	168	67 20
9	3 60	49	19 60	89	35 60	129	51 60	169	67 60
10	4 00	50	20 00	90	36 00	130	52 00	170	68 00
11	4 40	51	20 40	91	36 40	131	52 40	171	68 40
12	4 80	52	20 80	92	36 80	132	52 80	172	68 80
13	5 20	53	21 20	93	37 20	133	53 20	173	69 20
14	5 60	54	21 60	94	37 60	134	53 60	174	69 60
15	6 00	55	22 00	95	38 00	135	54 00	175	70 00
16	6 40	56	22 40	96	38 40	136	54 40	176	70 40
17	6 80	57	22 80	97	38 80	137	54 80	177	70 80
18	7 20	58	23 20	98	39 20	138	55 20	178	71 20
19	7 60	59	23 60	99	39 60	139	55 60	179	71 60
20	8 00	60	24 00	100	40 00	140	56 00	180	72 00
21	8 40	61	24 40	101	40 40	141	56 40	181	72 40
22	8 80	62	24 80	102	40 80	142	56 80	182	72 80
23	9 20	63	25 20	103	41 20	143	57 20	183	73 20
24	9 60	64	25 60	104	41 60	144	57 60	184	73 60
25	10 00	65	26 00	105	42 00	145	58 00	185	74 00
26	10 40	66	26 40	106	42 40	146	58 40	186	74 40
27	10 80	67	26 80	107	42 80	147	58 80	187	74 80
28	11 20	68	27 20	108	43 20	148	59 20	188	75 20
29	11 60	69	27 60	109	43 60	149	59 60	189	75 60
30	12 00	70	28 00	110	44 00	150	60 00	190	76 00
31	12 40	71	28 40	111	44 40	151	60 40	191	76 40
32	12 80	72	28 80	112	44 80	152	60 80	192	76 80
33	13 20	73	29 20	113	45 20	153	61 20	193	77 20
34	13 60	74	29 60	114	45 60	154	61 60	194	77 60
35	14 00	75	30 00	115	46 00	155	62 00	195	78 00
36	14 40	76	30 40	116	46 40	156	62 40	196	78 40
37	14 80	77	30 80	117	46 80	157	62 80	197	78 80
38	15 20	78	31 20	118	47 20	158	63 20	198	79 20
39	15 60	79	31 60	119	47 60	159	63 60	199	79 60
40	16 00	80	32 00	120	48 00	160	64 00	200	80 00



# NO. 41.

N	N	N	N	N
1 0 41	41 16 81	81 33 21	121 49 61	161 66 01
2 0 82	42 17 22	82 33 62	122 50 02	162 66 42
3 1 23	43 17 63	83 34 03	123 50 43	163 66 83
4 1 64	44 18 04	84 34 44	124 50 84	164 67 24
5 2 05	45 18 45	85 34 85	125 51 25	165 67 65
6 2 46	46 18 86	86 35 25	126 51 66	166 68 06
7 2 87	47 19 27	87 35 67	127 52 07	167 68 47
8 3 28	48 19 68	88 36 08	128 52 48	168 68 88
9 3 69	49 20 09	89 36 49	129 52 89	169 69 29
10 4 10	50 20 50	90 36 90	130 53 30	170 69 70
11 4 51	51 20 91	91 37 31	131 53 71	171 70 11
12 4 92	52 21 32	92 37 72	132 54 12	172 70 52
13 5 33	53 21 73	93 38 13	133 54 53	173 70 93
14 5 74	54 22 14	94 38 54	134 54 94	174 71 34
15 6 15	55 22 55	95 38 95	135 55 35	175 71 75
16 6 56	56 22 96	96 39 36	136 55 76	176 72 16
17 6 97	57 23 37	97 39 77	137 56 17	177 72 57
18 7 38	58 23 78	98 40 18	138 56 58	178 72 98
19 7 79	59 24 19	99 40 59	139 56 99	179 73 39
20 8 20	60 24 60	100 41 00	140 57 40	180 73 80
21 8 61	61 25 01	101 41 41	141 57 81	181 74 21
22 9 02	62 25 42	102 41 82	142 58 22	182 74 62
23 9 43	63 25 83	103 42 23	143 58 63	183 75 03
24 9 84	64 26 24	104 42 64	144 59 04	184 75 44
25 10 25	65 26 65	105 43 05	145 59 45	185 75 85
26 10 66	66 27 06	106 43 46	146 59 86	186 76 26
27 11 07	67 27 47	107 43 87	147 60 27	187 76 67
28 11 48	68 27 88	108 44 28	148 60 68	188 77 08
29 11 89	69 28 29	109 44 69	149 61 09	189 77 49
30 12 30	70 28 70	110 45 10	150 61 50	190 77 90
31 12 71	71 29 11	111 45 51	151 61 91	191 78 31
32 13 12	72 29 52	112 45 92	152 62 32	192 78 72
33 13 53	73 30 93	113 46 33	153 62 73	193 79 13
34 13 94	74 30 34	114 46 74	154 63 14	194 79 54
35 14 35	75 30 75	115 47 15	155 63 55	195 79 95
36 14 76	76 31 16	116 47 56	156 63 96	196 80 36
37 15 17	77 31 57	117 47 97	157 64 37	197 80 77
38 15 58	78 31 98	118 48 38	158 64 78	198 81 18
39 15 99	79 32 39	119 48 79	159 65 19	199 81 59
40 16 40	80 32 80	120 49 20	160 65 60	200 81 99

# NO. 42.

N

N

N

N

N

1	0	42	41	17	22	81	34	02	121	50	82	161	67	62
2	0	84	42	17	64	82	34	44	122	51	24	162	68	04
3	1	26	43	18	06	83	34	86	123	51	66	163	68	46
4	1	68	44	18	48	84	35	28	124	52	08	164	68	88
5	2	10	45	18	90	85	35	70	125	52	50	165	69	30
6	2	52	46	19	32	86	36	12	126	52	92	166	69	72
7	2	94	47	19	74	87	36	54	127	53	34	167	70	14
8	3	36	48	20	16	88	36	96	128	53	76	168	70	56
9	3	78	49	20	58	89	37	38	129	54	18	169	70	98
10	4	20	50	21	00	90	37	80	130	54	60	170	71	40
11	4	62	51	21	42	91	38	22	131	55	02	171	71	82
12	5	04	52	21	84	92	38	64	132	55	44	172	72	24
13	5	46	53	22	26	93	39	06	133	55	86	173	72	66
14	5	88	54	22	68	94	39	48	134	56	28	174	73	08
15	6	30	55	23	10	95	39	90	135	56	70	175	73	50
16	6	72	56	23	52	96	40	32	136	57	12	176	73	92
17	7	14	57	23	94	97	40	74	137	57	54	177	74	34
18	7	56	58	24	36	98	41	16	138	57	96	178	74	76
19	7	98	59	24	78	99	41	58	139	58	38	179	75	18
20	8	40	60	25	20	100	42	00	140	58	80	180	75	60
21	8	82	61	25	62	101	42	42	141	59	22	181	76	02
22	9	24	62	26	04	102	42	84	142	59	64	182	76	44
23	9	66	63	26	46	103	43	26	143	60	06	183	76	86
24	10	08	64	26	88	104	43	68	144	60	48	184	77	28
25	10	50	65	27	30	105	44	10	145	60	90	185	77	70
26	10	92	66	27	72	106	44	52	146	61	32	186	78	12
27	11	34	67	28	14	107	44	94	147	61	74	187	78	54
28	11	76	68	28	56	108	45	36	148	62	16	188	78	96
29	12	18	69	28	98	109	45	78	149	62	58	189	79	38
30	12	60	70	29	40	110	46	20	150	63	00	190	79	80
31	13	02	71	29	82	111	46	62	151	63	42	191	80	22
32	13	44	72	30	24	112	47	04	152	63	84	192	80	64
33	13	86	73	30	66	113	47	46	153	64	26	193	81	06
34	14	28	74	31	08	114	47	88	154	64	68	194	81	48
35	14	70	75	31	50	115	48	30	155	65	10	195	81	90
36	15	12	76	31	92	116	48	72	156	65	52	196	82	32
37	15	54	77	32	34	117	49	14	157	65	94	197	82	74
38	15	96	78	32	76	118	49	56	158	66	36	198	83	16
39	16	38	79	33	18	119	49	98	159	66	78	199	83	58
40	16	80	80	33	60	120	50	40	160	67	20	200	84	00



# NO. 43.

N	N	N	N	N
1 0 43	41 17 63	81 34 83	121 52 03	161 69 23
2 0 86	42 18 06	82 35 26	122 52 46	162 69 66
3 1 29	43 18 49	83 35 69	123 52 89	163 70 09
4 1 72	44 18 92	84 36 12	124 53 32	164 70 52
5 2 15	45 19 35	85 36 55	125 53 75	165 70 95
6 2 58	46 19 78	86 36 98	126 54 18	166 71 38
7 3 01	47 20 21	87 37 41	127 54 61	167 71 81
8 3 44	48 20 64	88 37 84	128 55 04	168 72 24
9 3 87	49 21 07	89 38 27	129 55 47	169 72 67
10 4 30	50 21 50	90 38 70	130 55 90	170 73 10
11 4 73	51 21 93	91 39 13	131 56 33	171 73 53
12 5 16	52 22 36	92 39 56	132 56 76	172 73 96
13 5 59	53 22 79	93 39 99	133 57 19	173 74 39
14 6 02	54 23 22	94 40 42	134 57 62	174 74 82
15 6 45	55 23 65	95 40 85	135 58 05	175 75 25
16 6 88	56 24 08	96 41 28	136 58 48	176 75 68
17 7 31	57 24 51	97 41 71	137 58 91	177 76 11
18 7 74	58 24 94	98 42 14	138 59 34	178 76 54
19 8 17	59 25 37	99 42 57	139 59 77	179 76 97
20 8 60	60 25 80	100 43 00	140 60 20	180 77 40
21 9 03	61 26 23	101 43 43	141 60 63	181 77 83
22 9 46	62 26 66	102 43 86	142 61 06	182 78 26
23 9 89	63 27 09	103 44 29	143 61 49	183 78 69
24 10 32	64 27 52	104 44 72	144 61 92	184 79 12
25 10 75	65 27 95	105 45 15	145 62 35	185 79 55
26 11 18	66 28 38	106 45 58	146 62 78	186 79 98
27 11 61	67 28 81	107 46 01	147 63 21	187 80 41
28 12 04	68 29 24	108 46 44	148 63 64	188 80 84
29 12 47	69 29 67	109 46 87	149 64 07	189 81 27
30 12 90	70 30 10	110 47 30	150 64 50	190 81 70
31 13 33	71 30 53	111 47 73	151 64 93	191 82 13
32 13 76	72 30 96	112 48 16	152 65 36	192 82 56
33 14 19	73 31 39	113 48 59	153 65 79	193 82 99
34 14 62	74 31 82	114 49 02	154 66 22	194 83 42
35 15 05	75 32 25	115 49 45	155 66 65	195 83 85
36 15 48	76 32 68	116 49 88	156 67 08	196 84 28
37 15 91	77 33 11	117 50 31	157 67 51	197 84 71
38 16 34	78 33 54	118 50 74	158 67 94	198 85 14
39 16 77	79 33 97	119 51 17	159 68 37	199 85 57
40 17 20	80 34 40	120 51 60	160 68 80	200 86 00

# NO. 44.

N	N	N	N	N
1 0 44	41 18 04	81 35 64	121 53 24	161 70 84
2 0 88	42 18 48	82 36 08	122 53 68	162 71 28
3 1 32	43 18 92	83 36 52	123 54 12	163 71 72
4 1 76	44 19 36	84 36 96	124 54 56	164 72 16
5 2 20	45 19 80	85 37 40	125 55 00	165 72 60
6 2 64	46 20 24	86 37 84	126 55 44	166 73 04
7 3 08	47 20 68	87 38 28	127 55 88	167 73 48
8 3 52	48 21 12	88 38 72	128 56 32	168 73 92
9 3 96	49 21 56	89 39 16	129 56 76	169 74 36
10 4 40	50 22 00	90 39 60	130 57 20	170 74 80
11 4 84	51 22 44	91 40 04	131 57 64	171 75 24
12 5 28	52 22 88	92 40 48	132 58 08	172 75 68
13 5 72	53 23 32	93 40 92	133 58 52	173 76 12
14 6 16	54 23 76	94 41 36	134 58 96	174 76 56
15 6 60	55 24 20	95 41 80	135 59 40	175 77 00
16 7 04	56 24 64	96 42 24	136 59 84	176 77 44
17 7 48	57 25 08	97 42 68	137 60 28	177 77 88
18 7 92	58 25 52	98 43 12	138 60 72	178 78 32
19 8 36	59 25 96	99 43 56	139 61 16	179 78 76
20 8 80	60 26 40	100 44 00	140 61 60	180 79 20
21 9 24	61 26 84	101 44 44	141 62 04	181 79 64
22 9 68	62 27 28	102 44 88	142 62 48	182 80 08
23 10 12	63 27 72	103 45 32	143 62 92	183 80 52
24 10 56	64 28 16	104 45 76	144 63 36	184 80 96
25 11 00	65 28 60	105 46 20	145 63 80	185 81 40
26 11 44	66 29 04	106 46 64	146 64 24	186 81 84
27 11 88	67 29 48	107 47 08	147 64 68	187 82 28
28 12 32	68 29 92	108 47 52	148 65 12	188 82 72
29 12 76	69 30 36	109 47 96	149 65 56	189 83 16
30 13 20	70 30 80	110 48 40	150 66 00	190 83 60
31 13 64	71 31 24	111 48 84	151 66 44	191 84 04
32 14 08	72 31 68	112 49 28	152 66 88	192 84 48
33 14 52	73 32 12	113 49 72	153 67 32	193 84 92
34 14 96	74 32 56	114 50 16	154 67 76	194 85 36
35 15 40	75 33 00	115 50 60	155 68 20	195 85 80
36 15 84	76 33 44	116 51 04	156 68 64	196 86 24
37 16 28	77 33 88	117 51 48	157 69 08	197 86 68
38 16 72	78 34 32	118 51 92	158 69 52	198 87 12
39 17 16	79 34 76	119 52 36	159 69 96	199 87 56
40 17 60	80 35 20	120 52 80	160 70 40	200 88 00

# NO. 45.

N	N	N	N	N
1 0 45	41 18 45	81 36 45	121 54 45	161 72 45
2 0 90	42 18 90	82 36 90	122 54 90	162 72 90
3 1 35	43 19 35	83 37 35	123 55 35	163 73 35
4 1 80	44 19 80	84 37 80	124 55 80	164 73 80
5 2 25	45 20 25	85 38 25	125 56 25	165 74 25
6 2 70	46 20 70	86 38 70	126 56 70	166 74 70
7 3 15	47 21 15	87 39 15	127 57 15	167 75 15
8 3 60	48 21 60	88 39 60	128 57 60	168 75 60
9 4 05	49 22 05	89 40 05	129 58 05	169 76 05
10 4 50	50 22 50	90 40 50	130 58 50	170 76 50
11 4 95	51 22 95	91 40 95	131 58 95	171 76 95
12 5 40	52 23 40	92 41 40	132 59 40	172 77 40
13 5 85	53 23 85	93 41 85	133 59 85	173 77 85
14 6 30	54 24 30	94 42 30	134 60 30	174 78 30
15 6 75	55 24 75	95 42 75	135 60 75	175 78 75
16 7 20	56 25 20	96 43 20	136 61 20	176 79 20
17 7 65	57 25 65	97 43 65	137 61 65	177 79 65
18 8 10	58 26 10	98 44 10	138 62 10	178 80 10
19 8 55	59 26 55	99 44 55	139 62 55	179 80 55
20 9 00	60 27 00	100 45 00	140 63 00	180 81 00
21 9 45	61 27 45	101 45 45	141 63 45	181 81 45
22 9 90	62 27 90	102 45 90	142 63 90	182 81 90
23 10 35	63 28 35	103 46 35	143 64 35	183 82 35
24 10 80	64 28 80	104 46 80	144 64 80	184 82 80
25 11 25	65 29 25	105 47 25	145 65 25	185 83 25
26 11 70	66 29 70	106 47 70	146 65 70	186 83 70
27 12 15	67 30 15	107 48 15	147 66 15	187 84 15
28 12 60	68 30 60	108 48 60	148 66 60	188 84 60
29 13 05	69 31 05	109 49 05	149 67 05	189 85 05
30 13 50	70 31 50	110 49 50	150 67 50	190 85 50
31 13 95	71 31 95	111 49 95	151 67 95	191 85 95
32 14 40	72 32 40	112 50 40	152 68 40	192 86 40
33 14 85	73 32 85	113 50 85	153 68 85	193 86 85
34 15 30	74 33 30	114 51 30	154 69 30	194 87 30
35 15 75	75 33 75	115 51 75	155 69 75	195 87 75
36 16 20	76 34 20	116 52 20	156 70 20	196 88 20
37 16 65	77 34 65	117 52 65	157 70 65	197 88 65
38 17 10	78 35 10	118 53 10	158 71 10	198 89 10
39 17 55	79 35 55	119 53 55	159 71 55	199 89 55
40 18 00	80 36 00	120 54 00	160 72 00	365 164 00

# NO. 46.

N	N	N	N	N
1 0 46	41 18 86	81 37 26	121 55 66	161 74 06
2 0 92	42 19 32	82 37 72	122 56 12	162 74 52
3 1 38	43 19 78	83 38 18	123 56 58	163 74 98
4 1 84	44 20 24	84 38 64	124 57 04	164 75 44
5 2 30	45 20 70	85 39 10	125 57 50	165 75 90
6 2 76	46 21 16	86 39 56	126 57 96	166 76 36
7 3 22	47 21 62	87 40 02	127 58 42	167 76 82
8 3 68	48 22 08	88 40 48	128 58 88	168 77 28
9 4 14	49 22 54	89 40 94	129 59 34	169 77 74
10 4 60	50 23 00	90 41 40	130 59 80	170 78 20
11 5 06	51 23 46	91 41 86	131 60 26	171 78 66
12 5 52	52 23 92	92 42 32	132 60 72	172 79 12
13 5 98	53 24 38	93 42 78	133 61 18	173 79 58
14 6 44	54 24 84	94 43 24	134 61 64	174 80 04
15 6 90	55 25 30	95 43 70	135 62 10	175 80 50
16 7 36	56 25 76	96 44 16	136 62 56	176 80 96
17 7 82	57 26 22	97 44 62	137 63 02	177 81 42
18 8 28	58 26 68	98 45 08	138 63 48	178 81 88
19 8 74	59 27 14	99 45 54	139 63 94	179 82 34
20 9 20	60 27 60	100 46 00	140 64 40	180 82 80
21 9 66	61 28 06	101 46 46	141 64 86	181 83 26
22 10 12	62 28 52	102 46 92	142 65 32	182 83 72
23 10 58	63 28 98	103 47 38	143 65 78	183 84 18
24 11 04	64 29 44	104 47 84	144 66 24	184 84 64
25 11 50	65 29 90	105 48 30	145 66 70	185 85 10
26 11 96	66 30 36	106 48 76	146 67 16	186 85 56
27 12 42	67 30 82	107 49 22	147 67 62	187 86 02
28 12 88	68 31 28	108 49 68	148 68 08	188 86 48
29 13 34	69 31 74	109 50 14	149 68 54	189 86 94
30 13 80	70 32 20	110 50 60	150 69 00	190 87 40
31 14 26	71 32 66	111 51 06	151 69 46	191 87 86
32 14 72	72 33 12	112 51 52	152 69 92	192 88 32
33 15 18	73 33 58	113 51 98	153 70 38	193 88 78
34 15 64	74 34 04	114 52 44	154 70 84	194 89 24
35 16 10	75 34 50	115 52 90	155 71 30	195 89 70
36 16 56	76 34 96	116 53 36	156 71 76	196 90 16
37 17 02	77 35 42	117 53 82	157 72 22	197 90 62
38 17 48	78 35 88	118 54 28	158 72 68	198 91 08
39 17 94	79 36 34	119 54 74	159 73 14	199 91 54
40 18 40	80 36 80	120 55 20	160 73 60	365 167 90

# NO. 47.

N

N

N

N

N

1	0 47	41 19 27	81 38 07	121 56 87	161 75 67
2	0 94	42 19 74	82 38 54	122 57 34	162 76 14
3	1 41	43 20 21	83 39 01	123 57 81	163 76 61
4	1 88	44 20 68	84 39 48	124 58 28	164 77 08
5	2 35	45 21 15	85 39 95	125 58 75	165 77 55
6	2 82	46 21 62	86 40 42	126 59 22	166 78 02
7	3 29	47 22 09	87 40 89	127 59 69	167 78 49
8	3 76	48 22 56	88 41 36	128 60 16	168 78 96
9	4 23	49 23 03	89 41 83	129 60 63	169 79 43
10	4 70	50 23 50	90 42 30	130 61 10	170 79 90
11	5 17	51 23 97	91 42 77	131 61 57	171 80 37
12	5 64	52 24 44	92 43 24	132 62 04	172 80 84
13	6 11	53 24 91	93 43 71	133 62 51	173 81 31
14	6 58	54 25 38	94 44 18	134 62 98	174 81 78
15	7 05	55 25 85	95 44 65	135 63 45	175 82 25
16	7 52	56 26 32	96 45 12	136 63 92	176 82 72
17	7 99	57 26 79	97 45 59	137 64 39	177 83 19
18	8 46	58 27 26	98 46 06	138 64 86	178 83 66
19	8 93	59 27 73	99 46 53	139 65 33	179 84 13
20	9 40	60 28 20	100 47 00	140 65 80	180 84 60
21	9 87	61 28 67	101 47 47	141 66 27	181 85 07
22	10 34	62 29 14	102 47 94	142 66 74	182 85 54
23	10 81	63 29 61	103 48 41	143 67 21	183 86 01
24	11 28	64 30 08	104 48 88	144 67 68	184 86 48
25	11 75	65 30 55	105 49 35	145 68 15	185 86 95
26	12 22	66 31 02	106 49 82	146 68 62	186 87 42
27	12 69	67 31 49	107 50 29	147 69 09	187 87 89
28	13 16	68 31 96	108 50 76	148 69 56	188 88 36
29	13 63	69 32 43	109 51 23	149 70 03	189 88 83
30	14 10	70 32 90	110 51 70	150 70 50	190 89 30
31	14 57	71 33 37	111 52 17	151 70 97	191 89 77
32	15 04	72 33 84	112 52 64	152 71 44	192 90 24
33	15 51	73 34 31	113 53 11	153 71 91	193 90 71
34	15 98	74 34 78	114 53 58	154 72 38	194 91 18
35	16 45	75 35 25	115 54 05	155 72 85	195 91 65
36	16 92	76 35 72	116 54 52	156 73 32	196 92 12
37	17 39	77 36 19	117 54 99	157 73 79	197 92 59
38	17 86	78 36 66	118 55 46	158 74 26	198 93 06
39	18 33	79 37 13	119 55 93	159 74 73	199 93 53
40	18 80	80 37 60	120 56 40	160 75 20	200 94 00

# NO. 43.

N	N	N	N	N
1 0 48	41 19 68	81 38 88	121 58 08	161 77 28
2 0 90	42 20 16	82 39 36	122 58 56	162 77 76
3 1 44	43 20 64	83 39 84	123 59 04	163 78 24
4 1 92	44 21 12	84 40 32	124 59 52	164 78 72
5 2 40	45 21 60	85 40 80	125 60 00	165 79 20
6 2 88	46 22 08	86 41 28	126 60 48	166 79 68
7 3 36	47 22 56	87 41 76	127 60 96	167 80 16
8 3 84	48 23 04	88 42 24	128 61 44	168 80 64
9 4 32	49 23 52	89 42 72	129 61 92	169 81 12
10 4 80	50 24 00	90 43 20	130 62 40	170 81 60
11 5 28	51 24 48	91 43 68	131 62 88	171 82 08
12 5 76	52 24 96	92 44 16	132 63 36	172 82 56
13 6 24	53 25 44	93 44 64	133 63 84	173 83 04
14 6 72	54 25 92	94 45 12	134 64 32	174 83 52
15 7 20	55 26 40	95 45 60	135 64 80	175 84 00
16 7 68	56 26 88	96 46 08	136 65 28	176 84 48
17 8 16	57 27 36	97 46 56	137 65 76	177 84 96
18 8 64	58 27 84	98 47 04	138 66 24	178 85 44
19 9 12	59 28 32	99 47 52	139 66 72	179 85 92
20 9 60	60 28 80	100 48 00	140 67 20	180 86 40
21 10 08	61 29 28	101 48 48	141 67 68	181 86 88
22 10 56	62 29 76	102 48 96	142 68 16	182 87 36
23 11 04	63 30 24	103 49 44	143 68 64	183 87 84
24 11 52	64 30 72	104 49 92	144 69 12	184 88 32
25 12 00	65 31 20	105 50 40	145 69 60	185 88 80
26 12 48	66 31 68	106 50 88	146 70 08	186 89 28
27 12 96	67 32 16	107 51 36	147 70 56	187 89 76
28 13 44	68 32 64	108 51 84	148 71 04	188 90 24
29 13 92	69 33 12	109 52 32	149 71 52	189 90 72
30 14 40	70 33 60	110 52 80	150 72 00	190 91 20
31 14 88	71 34 08	111 53 28	151 72 48	191 91 68
32 15 36	72 34 56	112 53 76	152 72 96	192 92 16
33 15 84	73 35 04	113 54 24	153 73 44	193 92 64
34 16 32	74 35 52	114 54 72	154 73 92	194 93 12
35 16 80	75 36 00	115 55 20	155 74 40	195 93 60
36 17 28	76 36 48	116 55 68	156 74 88	196 94 08
37 17 76	77 36 96	117 56 16	157 75 36	197 94 56
38 18 24	78 37 44	118 56 64	158 75 84	198 95 04
39 18 72	79 37 92	119 57 12	159 76 32	199 95 52
40 19 20	80 38 40	120 57 60	160 76 80	200 96 00



# NO. 49.

N

N

N

N

N

1	0	49	41	20	09	81	39	69	121	59	29	161	78	89
2	0	98	42	20	58	82	40	18	122	59	78	162	79	38
3	1	47	43	21	07	83	40	67	123	60	27	163	79	87
4	1	96	44	21	56	84	41	16	124	60	76	164	70	36
5	2	45	45	22	05	85	41	65	125	61	25	165	80	85
6	2	94	46	22	54	86	42	14	126	61	74	166	81	34
7	3	43	47	23	03	87	42	63	127	62	23	167	81	83
8	3	92	48	23	52	88	43	12	128	62	72	168	82	32
9	4	41	49	24	01	89	43	61	129	63	21	169	82	81
10	4	90	50	24	50	90	44	10	130	63	70	170	83	30
11	5	39	51	24	99	91	44	59	131	64	19	171	83	79
12	5	88	52	25	48	92	45	08	132	64	68	172	84	28
13	6	37	53	25	97	93	45	57	133	65	17	173	84	77
14	6	86	54	26	46	94	46	06	134	65	66	174	85	26
15	7	35	55	26	95	95	46	55	135	66	15	175	85	75
16	7	84	56	27	44	96	47	04	136	66	64	176	86	24
17	8	33	57	27	93	97	47	53	137	67	13	177	86	73
18	8	82	58	28	42	98	48	02	138	67	62	178	87	22
19	9	31	59	28	91	99	48	51	139	68	11	179	87	71
20	9	80	60	29	40	100	49	00	140	68	60	180	88	20
21	10	29	61	29	89	101	49	49	141	69	09	181	88	69
22	10	78	62	30	38	102	49	98	142	69	58	182	89	18
23	11	27	63	30	87	103	50	47	143	70	07	183	89	67
24	11	76	64	31	36	104	50	96	144	70	56	184	80	16
25	12	25	65	31	85	105	51	45	145	71	05	185	90	65
26	12	74	66	32	34	106	51	94	146	71	54	186	91	14
27	13	23	67	32	83	107	52	43	147	72	03	187	91	63
28	13	72	68	33	32	108	52	92	148	72	52	188	92	12
29	14	21	69	33	81	109	53	41	149	73	01	189	92	61
30	14	70	70	34	30	110	53	90	150	73	50	190	93	10
31	15	19	71	34	79	111	54	39	151	73	99	191	93	59
32	15	68	72	35	28	112	54	88	152	74	48	192	94	08
33	16	17	73	35	77	113	55	37	153	74	97	193	94	57
34	16	66	74	36	26	114	55	86	154	75	46	194	95	06
35	17	15	75	36	75	115	56	35	155	75	95	195	95	55
36	17	64	76	37	24	116	56	84	156	76	44	196	96	04
37	18	13	77	37	73	117	57	33	157	76	93	197	96	53
38	18	62	78	38	22	118	57	82	158	77	42	198	97	02
39	19	11	79	38	71	119	58	31	159	77	91	199	97	51
40	19	60	80	39	20	120	58	80	160	78	40	365	178	85

# NO. 50.

N	N	N	N	N
1 0 50	41 20 50	81 40 50	121 60 50	161 80 50
2 1 00	42 21 00	82 41 00	122 61 00	162 81 00
3 1 50	43 21 50	83 41 50	123 61 50	163 81 50
4 2 00	44 22 00	84 42 00	124 62 00	164 82 00
5 2 50	45 22 50	85 42 50	125 62 50	165 82 50
6 3 00	46 23 00	86 43 00	126 63 00	166 83 00
7 3 50	47 23 50	87 43 50	127 63 50	167 83 50
8 4 00	48 24 00	88 44 00	128 64 00	168 84 00
9 4 50	49 24 50	89 44 50	129 64 50	169 84 50
0 5 00	50 25 00	90 45 00	130 65 00	170 85 00
1 5 50	51 25 50	91 45 50	131 65 50	171 85 50
2 6 00	52 26 00	92 46 00	132 66 00	172 86 00
3 6 50	53 26 50	93 46 50	133 66 50	173 86 50
4 7 00	54 27 00	94 47 00	134 67 00	174 87 00
5 7 50	55 27 50	95 47 50	135 67 50	175 87 50
6 8 00	56 28 00	96 48 00	136 68 00	176 88 00
7 8 50	57 28 50	97 48 50	137 68 50	177 88 50
8 9 00	58 29 00	98 49 00	138 69 00	178 89 00
9 9 50	59 29 50	99 49 50	139 69 50	179 89 50
10 10 00	60 30 00	100 50 00	140 70 00	180 90 00
11 10 50	61 30 50	101 50 50	141 70 50	181 90 50
12 11 00	62 31 00	102 51 00	142 71 00	182 91 00
13 11 50	63 31 50	103 51 50	143 71 50	183 91 50
14 12 00	64 32 00	104 52 00	144 72 00	184 92 00
15 12 50	65 32 50	105 52 50	145 72 50	185 92 50
16 13 00	66 33 00	106 53 00	146 73 00	186 93 00
17 13 50	67 33 50	107 53 50	147 73 50	187 93 50
18 14 00	68 34 00	108 54 00	148 74 00	188 94 00
19 14 50	69 34 50	109 54 50	149 74 50	189 94 50
20 15 00	70 35 00	110 55 00	150 75 00	190 95 00
1 15 50	71 35 50	111 55 50	151 75 50	191 95 50
2 16 00	72 36 00	112 56 00	152 76 00	192 96 00
3 16 50	73 36 50	113 56 50	153 76 50	193 96 50
4 17 00	74 37 00	114 57 00	154 77 00	194 97 00
5 17 50	75 37 50	115 57 50	155 77 50	195 97 50
6 18 00	76 38 00	116 58 00	156 78 00	196 98 00
7 18 50	77 38 50	117 58 50	157 78 50	197 98 50
8 19 00	78 39 00	118 59 00	158 79 00	198 99 00
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10 20 00	80 40 00	120 60 00	160 80 00	200 100 00



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1	0 51	41 20 91	81 41 31	121 61 71
2	1 02	42 21 42	82 41 82	122 62 22
3	1 53	43 21 93	83 42 33	123 62 73
4	2 04	44 22 44	84 42 84	124 63 24
5	2 55	45 22 95	85 43 35	125 63 75
6	3 06	46 23 46	86 43 86	126 64 26
7	3 57	47 23 97	87 44 37	127 64 77
8	4 08	48 24 48	88 44 88	128 65 28
9	4 59	49 24 99	89 45 39	129 65 79
10	5 10	50 25 50	90 45 90	130 66 30
11	5 61	51 26 01	91 46 41	131 66 81
12	6 12	52 26 52	92 46 92	132 67 32
13	6 63	53 27 03	93 47 43	133 67 83
14	7 14	54 27 54	94 47 94	134 68 34
15	7 65	55 28 05	95 48 45	135 68 85
16	8 16	56 28 56	96 48 96	136 69 36
17	8 67	57 29 07	97 49 47	137 69 87
18	9 18	58 29 58	98 49 98	138 70 38
19	9 69	59 30 09	99 50 49	139 70 89
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21	10 71	61 31 11	101 51 51	141 71 91
22	11 22	62 31 62	102 52 02	142 72 42
23	11 73	63 32 13	103 52 53	143 72 93
24	12 24	64 32 64	104 53 04	144 73 44
25	12 75	65 33 15	105 53 55	145 73 95
26	13 26	66 33 66	106 54 06	146 74 46
27	13 77	67 34 17	107 54 57	147 74 97
28	14 28	68 34 68	108 55 08	148 75 48
29	14 79	69 35 19	109 55 59	149 75 99
30	15 30	70 35 70	110 56 10	150 76 50
31	15 81	71 36 21	111 56 61	151 77 01
32	16 32	72 36 72	112 57 12	152 77 52
33	16 83	73 37 23	113 57 63	153 78 03
34	17 34	74 37 74	114 58 14	154 78 54
35	17 85	75 38 25	115 58 65	155 79 05
36	18 36	76 38 76	116 59 16	156 79 56
37	18 87	77 39 27	117 59 67	157 80 07
38	19 38	78 39 78	118 60 18	158 80 58
39	19 89	79 40 29	119 60 69	159 81 09
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				432 217 81
				433 218 82

# NO. 52.

J	N			N	N			N	N		
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2	1	04	42	21	84	82	42	64	122	63	44
3	1	56	43	22	36	83	43	16	123	63	96
4	2	08	44	22	88	84	43	68	124	64	48
5	2	60	45	23	40	85	44	20	125	65	00
6	3	12	46	23	92	86	44	72	126	65	52
7	3	64	47	24	44	87	45	24	127	66	04
8	4	16	48	24	96	88	45	76	128	66	56
9	4	68	49	25	48	89	46	28	129	67	08
10	5	20	50	26	00	90	46	80	130	67	60
11	5	72	51	26	52	91	47	32	131	68	12
12	6	24	52	27	04	92	47	84	132	68	64
13	6	76	53	27	56	93	48	36	133	69	16
14	7	28	54	28	08	94	48	88	134	69	68
15	7	80	55	28	60	95	49	40	135	70	20
16	8	32	56	29	12	96	49	92	136	70	72
17	8	84	57	29	64	97	50	44	137	71	24
18	9	36	58	30	16	98	50	96	138	71	76
19	9	88	59	30	68	99	51	48	139	72	28
20	10	40	60	31	20	100	52	00	140	72	80
21	10	92	61	31	72	101	52	52	141	73	32
22	11	44	62	32	24	102	53	04	142	73	84
23	11	96	63	32	76	103	53	56	143	74	36
24	12	48	64	33	28	104	54	08	144	74	88
25	13	00	65	33	80	105	54	60	145	75	40
26	13	52	66	34	32	106	55	12	146	75	92
27	14	04	67	34	84	107	55	64	147	76	44
28	14	56	68	35	36	108	56	16	148	76	96
29	15	08	69	35	88	109	56	68	149	77	48
30	15	60	70	36	40	110	57	20	150	78	00
31	16	12	71	36	92	111	57	72	151	78	52
32	16	64	72	37	44	112	58	24	152	79	04
33	17	16	73	37	96	113	58	76	153	79	56
34	17	68	74	38	48	114	59	28	154	80	08
35	18	20	75	39	00	115	59	80	155	80	60
36	18	72	76	39	52	116	60	32	156	81	12
37	19	24	77	40	04	117	60	84	157	81	64
38	19	76	78	40	56	118	61	36	158	82	16
39	20	28	79	41	08	119	61	88	159	82	68
40	20	80	80	41	60	120	62	40	160	83	20
									161	83	72
									162	84	24
									163	84	76
									164	85	28
									165	85	80
									166	86	32
									167	86	84
									168	87	36
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									170	88	40
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									172	89	44
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									174	90	48
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									177	92	04
									178	92	56
									179	93	08
									180	93	60
									181	94	12
									182	94	64
									183	95	16
									184	95	68
									185	96	20
									186	96	72
									187	97	24
									188	97	76
									189	98	28
									190	98	80
									191	99	32
									192	99	84
									193	100	36
									194	100	88
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									197	102	44
									198	102	96
									199	103	48
									200	103	00

# NO. 53.

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1	0 53	41 21 73	81 42 93	121 64 13
2	1 06	42 22 26	82 43 46	122 64 66
3	1 59	43 22 79	83 43 99	123 65 19
4	2 12	44 23 32	84 44 52	124 65 72
5	2 65	45 23 85	85 45 05	125 66 25
6	3 18	46 24 38	86 45 58	126 66 78
7	3 71	47 24 91	87 46 11	127 67 31
8	4 24	48 25 44	88 46 64	128 67 84
9	4 77	49 25 97	89 47 17	129 68 37
10	5 30	50 26 50	90 47 70	130 68 90
11	5 83	51 27 03	91 48 23	131 69 43
12	6 36	52 27 56	92 48 76	132 69 96
13	6 89	53 28 09	93 49 29	133 70 49
14	7 42	54 28 62	94 49 82	134 71 02
15	7 95	55 29 15	95 40 35	135 71 55
16	8 48	56 29 68	96 50 88	136 72 08
17	9 01	57 30 21	97 51 41	137 72 61
18	9 54	58 30 74	98 51 94	138 73 14
19	10 07	59 31 27	99 52 47	139 73 67
20	10 60	60 31 80	100 53 00	140 74 20
21	11 13	61 32 33	101 53 53	141 74 73
22	11 66	62 32 86	102 54 06	142 75 26
23	12 19	63 33 39	103 54 59	143 75 79
24	12 72	64 33 92	104 55 12	144 76 32
25	13 25	65 34 45	105 55 65	145 76 85
26	13 78	66 34 98	106 56 18	146 77 38
27	14 31	67 35 51	107 56 71	147 77 91
28	14 84	68 36 04	108 57 24	148 78 44
29	15 37	69 36 57	109 57 77	149 78 97
30	15 90	70 37 10	110 58 30	150 79 50
31	15 43	71 37 63	111 58 83	151 80 03
32	16 96	72 38 16	112 59 36	152 80 56
33	17 49	73 38 69	113 59 89	153 81 09
34	18 02	74 39 22	114 50 42	154 81 62
35	18 55	75 39 75	115 60 95	155 82 15
36	19 08	76 40 28	116 61 48	156 82 68
37	19 61	77 40 81	117 62 01	157 83 21
38	20 14	78 41 34	118 62 54	158 83 74
39	20 67	79 41 87	119 63 07	159 84 27
40	21 20	80 42 40	120 63 60	160 84 80
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				162 85 86
				163 86 39
				164 86 92
				165 87 45
				166 87 98
				167 88 51
				168 89 04
				169 89 57
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				171 90 63
				172 91 16
				173 91 69
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				177 93 81
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# NO. 54.

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1 08	42 22 68	82 44 28	122 65 88
1 62	43 23 22	83 44 82	123 66 42
2 16	44 23 76	84 45 36	124 66 96
2 70	45 24 30	85 45 90	125 67 50
3 24	46 24 84	86 46 44	126 68 04
3 78	47 25 38	87 46 98	127 68 58
4 32	48 25 92	88 47 52	128 69 12
4 86	49 26 46	89 48 06	129 69 66
5 40	50 27 00	90 48 60	130 70 20
5 94	51 27 54	91 49 14	131 70 74
6 48	52 28 08	92 49 68	132 71 28
7 02	53 28 62	93 50 22	133 71 82
7 56	54 29 16	94 50 76	134 72 36
8 10	55 29 70	95 51 30	135 72 90
8 64	56 30 24	96 51 84	136 73 44
9 18	57 30 78	97 52 38	137 73 98
9 72	58 31 32	98 52 92	138 74 52
0 26	59 31 86	99 53 46	139 75 06
0 80	60 32 40	100 54 00	140 75 60
1 34	61 32 94	101 54 54	141 76 14
1 88	62 33 48	102 55 08	142 76 68
2 42	63 34 02	103 55 62	143 77 22
2 96	64 34 56	104 56 16	144 77 76
3 50	65 35 10	105 56 70	145 78 30
4 04	66 35 64	106 57 24	146 78 84
4 58	67 36 18	107 57 78	147 79 38
5 12	68 36 72	108 58 32	148 79 92
5 66	69 37 26	109 58 86	149 80 46
6 20	70 37 80	110 59 40	150 81 00
6 74	71 38 34	111 59 94	151 81 54
7 28	72 38 88	112 60 48	152 82 08
7 82	73 39 42	113 61 02	153 82 62
8 36	74 39 96	114 61 56	154 83 16
8 90	75 40 50	115 62 10	155 83 70
9 44	76 41 04	116 62 64	156 84 24
9 98	77 41 58	117 63 18	157 84 78
0 52	78 42 12	118 63 72	158 85 32
1 06	79 42 66	119 64 26	159 85 86
1 60	80 43 20	120 64 80	160 86 40
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			162 87 48
			163 88 02
			164 88 56
			165 89 10
			166 89 64
			167 90 18
			168 90 72
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			190 102 60
			191 103 14
			192 103 68
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			199 107 46
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# NO. 55.

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1 0 55	41 22 55	81 44 55	121 66 55	161 88 55
2 1 10	42 23 10	82 45 10	122 67 10	162 89 10
3 1 65	43 23 65	83 45 65	123 67 65	163 89 65
4 2 20	44 24 20	84 46 20	124 68 20	164 90 20
5 2 75	45 24 75	85 46 75	125 68 75	165 90 75
6 3 30	46 25 30	86 47 30	126 69 30	166 91 30
7 3 85	47 25 85	87 47 85	127 69 85	167 91 85
8 4 40	48 26 40	88 48 40	128 70 40	168 92 40
9 4 95	49 26 95	89 48 95	129 70 95	169 92 95
10 5 50	50 27 50	90 49 50	130 71 50	170 93 50
11 6 05	51 28 05	91 50 05	131 72 05	171 94 05
12 6 60	52 28 60	92 50 60	132 72 60	172 94 60
13 7 15	53 29 15	93 51 15	133 73 15	173 95 15
14 7 70	54 29 70	94 51 70	134 73 70	174 95 70
15 8 25	55 30 25	95 52 25	135 74 25	175 96 25
16 8 80	56 30 80	96 52 80	136 74 80	176 96 80
17 9 35	57 31 35	97 53 35	137 75 35	177 97 35
18 9 90	58 31 90	98 53 90	138 75 90	178 97 90
19 10 45	59 32 45	99 54 45	139 76 45	179 98 45
20 11 00	60 33 00	100 55 00	140 77 00	180 99 00
21 11 55	61 33 55	101 55 55	141 77 55	181 99 55
22 12 10	62 34 10	102 56 10	142 78 10	182 100 10
23 12 65	63 34 65	103 56 65	143 78 65	183 100 65
24 13 20	64 35 20	104 57 20	144 79 20	184 101 20
25 13 75	65 35 75	105 57 75	145 79 75	185 101 75
26 14 30	66 36 30	106 58 30	146 80 30	186 102 30
27 14 85	67 36 85	107 58 85	147 80 85	187 102 85
28 15 40	68 37 40	108 59 40	148 81 40	188 103 40
29 15 95	69 37 95	109 59 95	149 81 95	189 103 95
30 16 50	70 38 50	110 60 50	150 82 50	190 104 50
31 17 05	71 39 05	111 61 05	151 83 05	191 105 05
32 17 60	72 39 60	112 61 60	152 83 60	192 105 60
33 18 15	73 40 15	113 62 15	153 84 15	193 106 15
34 18 70	74 40 70	114 62 70	154 84 70	194 106 70
35 19 25	75 41 25	115 63 25	155 85 25	195 107 25
36 19 80	76 41 80	116 63 80	156 85 80	196 107 80
37 20 35	77 42 35	117 64 35	157 86 35	197 108 35
38 20 90	78 42 90	118 64 90	158 86 90	198 108 90
39 21 45	79 43 45	119 65 45	159 87 45	199 109 45
40 22 00	80 44 00	120 66 00	160 88 00	365 200 75



# NO. 56.

N

N

N

N

0 36	41 22 90	81 45 36	121 67 76	161 90 16
1 12	42 23 52	82 45 92	122 68 32	162 90 72
1 68	43 24 08	83 46 48	123 68 88	163 91 28
2 24	44 24 64	84 47 04	124 69 44	164 91 84
2 80	45 25 20	85 47 60	125 70 00	165 92 40
3 36	46 25 76	86 48 16	126 70 56	166 92 96
3 92	47 26 32	87 48 72	127 71 12	167 93 52
4 48	48 26 88	88 49 28	128 71 68	168 94 08
5 04	49 27 44	89 49 84	129 72 24	169 94 64
5 60	50 28 00	90 50 40	130 72 80	170 95 20
6 16	51 28 56	91 50 96	131 73 36	171 95 76
6 72	52 29 12	92 51 52	132 73 92	172 96 32
7 28	53 29 68	93 52 08	133 74 48	173 96 88
7 84	54 30 24	94 52 64	134 75 04	174 97 44
8 40	55 30 80	95 53 20	135 75 60	175 98 00
8 96	56 31 36	96 53 76	136 76 16	176 98 56
9 52	57 31 92	97 54 32	137 76 72	177 99 12
10 08	58 32 48	98 54 88	138 77 28	178 99 68
10 64	59 33 04	99 55 44	139 77 84	179 100 24
11 20	60 33 60	100 56 00	140 78 40	180 100 80
11 76	61 34 16	101 56 56	141 78 96	181 101 36
2 12 32	62 34 72	102 57 12	142 79 52	182 101 92
3 12 88	63 35 28	103 57 68	143 80 08	183 102 48
4 13 44	64 35 84	104 58 24	144 80 64	184 103 04
5 14 00	65 36 40	105 58 80	145 81 20	185 103 60
6 14 56	66 36 96	106 59 36	146 81 76	186 104 16
7 15 12	67 37 52	107 59 92	147 82 32	187 104 72
8 15 68	68 38 08	108 60 48	148 82 88	188 105 28
9 16 24	69 38 64	109 61 04	149 83 44	189 105 84
10 16 80	70 39 20	110 61 60	150 84 00	190 106 40
11 17 36	71 39 76	111 62 16	151 84 56	191 106 96
2 17 92	72 40 32	112 62 72	152 85 12	192 107 52
3 18 48	73 40 88	113 63 28	153 85 68	193 108 08
4 19 04	74 41 44	114 63 84	154 86 24	194 108 64
5 19 60	75 42 00	115 64 40	155 86 80	195 109 20
6 20 16	76 42 56	116 64 96	156 87 36	196 109 76
7 20 72	77 43 12	117 65 52	157 87 92	197 110 32
8 21 28	78 43 68	118 66 08	158 88 48	198 110 88
9 21 84	79 44 24	119 66 64	159 89 04	199 111 44
10 22 40	80 44 80	120 67 20	160 89 60	200 111 40

# NO. 57.

N

N

N

N

N

1	0 57	41 23 37	81 46 17	121 68 97	161 91 77
2	1 14	42 23 94	82 46 74	122 69 54	162 92 34
3	1 71	43 24 51	83 47 31	123 70 11	163 92 91
4	2 28	44 25 08	84 47 88	124 70 68	164 93 48
5	2 85	45 25 65	85 48 45	125 71 25	165 94 05
6	3 42	46 26 22	86 49 02	126 71 82	166 94 62
7	3 99	47 26 79	87 49 59	127 72 39	167 95 19
8	4 56	48 27 36	88 50 16	128 72 96	168 95 76
9	5 13	49 27 93	89 50 73	129 73 53	169 96 33
10	5 70	50 28 50	90 51 30	130 74 10	170 96 90
11	6 27	51 29 07	91 51 87	131 74 67	171 97 47
12	6 84	52 29 64	92 52 44	132 75 24	172 98 04
13	7 41	53 30 21	93 53 01	133 75 81	173 98 61
14	7 98	54 30 78	94 53 58	134 76 38	174 99 18
15	8 55	55 31 35	95 54 15	135 76 95	175 99 75
16	9 12	56 31 92	96 54 72	136 77 52	176 100 32
17	9 69	57 32 49	97 55 29	137 78 09	177 100 89
18	10 26	58 33 06	98 55 86	138 78 66	178 101 46
19	10 83	59 33 63	99 56 43	139 79 23	179 102 03
20	11 40	60 34 20	100 57 00	140 79 80	180 102 60
21	11 97	61 34 77	101 57 57	141 80 37	181 103 17
22	12 54	62 35 34	102 58 14	142 80 94	182 103 74
23	13 11	63 35 91	103 58 71	143 81 51	183 104 31
24	13 68	64 36 48	104 59 28	144 82 08	184 104 88
25	14 25	65 37 05	105 59 85	145 82 65	185 105 45
26	14 82	66 37 62	106 60 42	146 83 22	186 106 02
27	15 39	67 38 19	107 60 99	147 83 79	187 106 59
28	15 96	68 38 76	108 61 56	148 84 36	188 107 16
29	16 53	69 39 33	109 62 13	149 84 93	189 107 73
30	17 10	70 39 90	110 62 70	150 85 50	190 108 30
31	17 67	71 40 47	111 63 27	151 86 07	191 108 87
32	18 24	72 41 04	112 63 84	152 86 64	192 109 44
33	18 81	73 41 61	113 64 41	153 87 21	193 110 01
34	19 38	74 42 18	114 64 98	154 87 78	194 110 58
35	19 95	75 42 75	115 65 55	155 88 35	195 111 15
36	20 52	76 43 32	116 66 12	156 88 92	196 111 72
37	21 09	77 43 89	117 66 69	157 89 49	197 112 29
38	21 66	78 44 46	118 67 26	158 90 06	198 112 86
39	22 23	79 45 03	119 67 83	159 90 63	199 113 43
40	22 80	80 45 60	120 68 40	160 91 20	200 114 00

# NO. 58.

N	N	N	N	N
1 0 58	41 23 78	81 46 98	121 70 18	161 93 38
2 1 16	42 24 36	82 47 56	122 70 76	162 93 96
3 1 74	43 24 94	83 48 14	123 71 34	163 94 54
4 2 32	44 25 52	84 48 72	124 71 92	164 95 12
5 2 90	45 26 10	85 49 30	125 72 50	165 95 70
6 3 48	46 26 68	86 49 88	126 73 08	166 96 28
7 4 06	47 27 26	87 50 46	127 73 66	167 96 86
8 4 64	48 27 84	88 51 04	128 74 24	168 97 44
9 5 22	49 28 42	89 51 62	129 74 82	169 98 02
10 5 80	50 29 00	90 52 20	130 75 40	170 98 60
11 6 38	51 29 58	91 52 78	131 75 98	171 99 18
12 6 96	52 30 16	92 53 36	132 76 56	172 99 76
13 7 54	53 30 74	93 53 94	133 77 14	173 100 34
14 8 12	54 31 32	94 54 52	134 77 72	174 100 92
15 8 70	55 31 90	95 55 10	135 78 30	175 101 50
16 9 28	56 32 48	96 55 68	136 78 88	176 102 08
17 9 86	57 33 06	97 56 26	137 79 46	177 102 66
18 10 44	58 33 64	98 56 84	138 80 04	178 103 24
19 11 02	59 34 22	99 57 42	139 80 62	179 103 82
20 11 60	60 34 80	00 58 00	140 81 20	180 104 40
21 12 18	61 35 38	101 58 58	141 81 78	181 104 98
22 12 76	62 35 96	102 59 16	142 82 36	182 105 56
23 13 34	63 36 54	103 59 74	143 82 94	183 106 14
24 13 92	64 37 12	104 60 32	144 83 52	184 106 72
25 14 50	65 37 70	105 60 90	145 84 10	185 107 30
26 15 08	66 38 28	106 61 48	146 84 68	186 107 88
27 15 66	67 38 86	107 62 06	147 85 26	187 108 46
28 16 24	68 39 44	108 62 64	148 85 84	188 109 04
29 16 82	69 40 02	109 63 22	149 86 42	189 109 62
30 17 40	70 40 60	110 63 80	150 87 00	190 110 20
31 17 98	71 41 18	111 64 38	151 87 58	191 110 78
32 18 56	72 41 76	112 64 96	152 88 16	192 111 36
33 19 14	73 42 34	113 65 54	153 88 74	193 111 94
34 19 72	74 42 92	114 66 12	154 89 32	194 112 52
35 20 30	75 43 50	115 66 70	155 89 90	195 113 10
36 20 88	76 44 08	116 67 28	156 90 48	196 113 68
37 21 46	77 44 66	117 67 86	157 91 06	197 114 26
38 22 04	78 45 24	118 68 44	158 91 64	198 114 84
39 22 62	79 45 82	119 69 02	159 92 22	199 115 42
40 23 20	80 46 40	120 69 60	160 92 80	200 116 00



N	N	N	N	N	N	N	N
1 0 59	41 24 19	81 47 79	121 74 39	161 94 99			
2 1 18	42 24 78	82 48 38	122 71 98	162 95 58			
3 1 77	43 25 37	83 48 97	123 72 57	163 96 17			
4 2 36	44 25 96	84 49 56	124 73 16	164 96 76			
5 2 95	45 26 55	85 50 15	125 73 75	165 97 35			
6 3 54	46 27 14	86 50 74	126 74 34	166 97 94			
7 4 13	47 27 73	87 51 33	127 74 93	167 98 53			
8 4 72	48 28 32	88 51 92	128 75 52	168 99 12			
9 5 31	49 28 91	89 52 51	129 76 11	169 99 71			
10 5 90	50 29 50	90 53 10	130 76 70	170 100 30			
11 6 49	51 30 09	91 53 69	131 77 29	171 100 89			
12 7 08	52 30 68	92 54 28	132 77 88	172 101 48			
13 7 67	53 31 27	93 54 87	133 78 47	173 102 07			
14 8 26	54 31 86	94 55 46	134 79 06	174 102 66			
15 8 85	55 32 45	95 56 05	135 79 65	175 103 25			
16 9 44	56 33 04	96 56 64	136 80 24	176 103 84			
17 10 03	57 33 63	97 57 23	137 80 83	177 104 43			
18 10 62	58 34 22	98 57 82	138 81 42	178 105 02			
19 11 21	59 34 81	99 58 41	139 82 01	179 105 61			
20 11 80	60 35 40	100 59 00	140 82 60	180 106 20			
21 12 39	61 35 99	101 59 59	141 83 19	181 106 79			
22 12 98	62 36 58	102 60 18	142 83 78	182 107 38			
23 13 57	63 37 17	103 60 77	143 84 37	183 107 97			
24 14 16	64 37 76	104 61 36	144 84 96	184 108 56			
25 14 75	65 38 35	105 61 95	145 85 55	185 109 15			
26 15 34	66 38 94	106 62 54	146 86 14	186 109 74			
27 15 93	67 39 53	107 63 13	147 86 73	187 110 33			
28 16 52	68 40 12	108 63 72	148 87 32	188 110 92			
29 17 11	69 40 71	109 64 31	149 87 91	189 111 51			
30 17 70	70 41 30	110 64 90	150 88 50	190 112 10			
31 18 29	71 41 89	111 65 49	151 89 09	191 112 69			
32 18 88	72 42 48	112 66 08	152 89 68	192 113 28			
33 19 47	73 43 07	113 66 67	153 90 27	193 113 87			
34 20 06	74 43 66	114 67 26	154 90 86	194 114 46			
35 20 65	75 44 25	115 67 85	155 91 45	195 115 05			
36 21 24	76 44 84	116 68 44	156 92 04	196 115 64			
37 21 83	77 45 43	117 69 03	157 92 63	197 116 23			
38 22 42	78 46 02	118 69 62	158 93 22	198 116 82			
39 23 01	79 46 61	119 70 21	159 93 81	199 117 41			
40 23 60	80 47 20	120 70 80	160 94 40	365 215 35			

# NO. 60.

N

N

N

N

0 60	41 24 60	81 48 60	121 72 60	161 96 60
1 20	42 25 20	82 49 20	122 73 20	162 97 20
1 80	43 25 80	83 49 80	123 73 80	163 97 80
2 40	44 26 40	84 50 40	124 74 40	164 98 40
3 00	45 27 00	85 51 00	125 75 00	165 99 00
3 60	46 27 60	86 51 60	126 75 60	166 99 60
4 20	47 28 20	87 52 20	127 76 20	167 100 20
4 80	48 28 80	88 52 80	128 76 80	168 100 80
5 40	49 29 40	89 53 40	129 77 40	169 101 40
6 00	50 30 00	90 54 00	130 78 00	170 102 00
6 60	51 30 60	91 54 60	131 78 60	171 102 60
7 20	52 31 20	92 55 20	132 79 20	172 103 20
7 80	53 31 80	93 55 80	133 79 80	173 103 80
8 40	54 32 40	94 56 40	134 80 40	174 104 40
9 00	55 33 00	95 57 00	135 81 00	175 105 00
9 60	56 33 60	96 57 60	136 81 60	176 105 60
10 20	57 34 20	97 58 20	137 82 20	177 105 20
10 80	58 34 80	98 58 80	138 82 80	178 106 80
11 40	59 35 40	99 59 40	139 83 40	179 107 40
12 00	60 36 00	100 60 00	140 84 00	180 108 00
12 60	61 36 60	101 60 60	141 84 60	181 108 60
13 20	62 37 20	102 61 20	142 85 20	182 109 20
13 80	63 37 80	103 61 80	143 85 80	183 109 80
14 40	64 38 40	104 62 40	144 86 40	184 110 40
15 00	65 39 00	105 63 00	145 87 00	185 111 00
15 60	66 39 60	106 63 60	146 87 60	186 111 60
16 20	67 40 20	107 64 20	147 88 20	187 112 20
16 80	68 04 80	108 64 80	148 88 80	188 112 80
17 40	69 41 40	109 65 40	149 89 40	189 113 40
18 00	70 42 00	110 66 00	150 90 00	190 114 00
18 60	71 42 60	111 66 60	151 90 60	191 114 60
19 20	72 43 20	112 67 20	152 91 20	192 115 20
19 80	73 43 80	113 67 80	153 91 80	193 115 80
20 40	74 44 40	114 68 40	154 92 40	194 116 40
21 00	75 45 00	115 69 00	155 93 00	195 117 00
21 60	76 45 60	116 69 60	156 93 60	196 117 60
22 20	77 46 20	117 70 20	157 94 20	197 118 20
22 80	78 46 80	118 70 80	158 94 80	198 118 80
23 40	79 47 40	119 71 40	159 95 40	199 119 40
24 00	80 48 00	120 72 00	160 96 00	200 120 00

# NO. 61.

N	N	N	N	N
1 0 61	11 25 01	81 49 41	121 73 81	161 98 21
2 1 22	12 25 62	82 50 02	122 74 42	162 98 82
3 1 83	13 26 23	83 50 63	123 75 03	163 99 43
4 2 44	14 26 84	84 51 24	124 75 64	164 100 04
5 3 05	15 27 45	85 51 85	125 76 25	165 100 65
6 3 66	16 28 06	86 52 46	126 76 86	166 101 26
7 4 27	17 28 67	87 53 07	127 77 47	167 101 87
8 4 88	18 29 28	88 53 68	128 78 08	168 102 48
9 5 49	19 29 89	89 54 29	129 78 69	169 103 09
10 6 10	20 30 50	90 54 90	130 79 30	170 103 70
11 6 71	21 31 11	91 55 51	131 79 91	171 104 31
12 7 32	22 31 72	92 56 12	132 80 52	172 104 92
13 7 93	23 32 33	93 56 73	133 81 13	173 105 53
14 8 54	24 32 94	94 57 34	134 81 74	174 106 14
15 9 15	25 33 55	95 57 95	135 82 35	175 106 75
16 9 76	26 34 16	96 58 56	136 82 96	176 107 36
17 10 37	27 34 77	97 59 17	137 83 57	177 107 97
18 10 98	28 35 38	88 59 78	138 84 18	178 108 58
19 11 59	29 35 99	99 60 39	139 84 79	179 109 19
20 12 20	30 36 60	100 61 00	140 85 40	180 109 80
21 12 81	31 37 21	101 61 61	141 86 01	181 110 41
22 13 42	32 37 82	102 62 22	142 86 62	182 111 02
23 14 03	33 38 43	103 62 83	143 87 23	183 111 63
24 14 64	34 39 04	104 63 44	144 87 84	184 112 24
25 15 25	35 39 65	105 64 05	145 88 45	185 112 85
26 15 86	36 40 26	106 64 66	146 89 06	186 113 46
27 16 47	37 40 87	107 65 27	147 89 67	187 114 07
28 17 08	38 41 48	108 65 88	148 90 28	188 114 68
29 17 69	39 42 09	109 66 49	149 90 89	189 115 29
30 18 30	40 42 70	110 67 10	150 91 50	190 115 90
31 18 91	41 43 31	111 67 71	151 92 11	191 116 51
32 19 52	42 43 92	112 68 32	152 92 72	192 117 12
33 20 13	43 44 53	113 68 93	153 93 33	193 117 73
34 20 74	44 45 14	114 69 54	154 93 94	194 118 34
35 21 35	45 45 75	115 70 15	155 94 55	195 118 95
36 21 96	46 46 36	116 70 76	156 95 16	196 119 56
37 22 57	47 46 97	117 71 37	157 95 77	197 120 17
38 23 18	48 47 58	118 71 98	158 96 38	198 120 78
39 23 79	49 48 19	119 72 59	159 96 99	199 121 39
40 24 40	50 48 80	120 73 20	160 97 60	200 122 00

# NO. 62.

N	N	N	N	N
1	0 62	41 25 42	81 50 22	121 75 02
2	1 24	42 26 04	82 50 84	122 75 64
3	1 86	43 26 66	83 51 46	123 76 26
4	2 48	44 27 28	84 52 08	124 76 88
5	3 10	45 27 90	85 52 70	125 77 50
6	3 72	46 28 52	86 53 32	126 78 12
7	4 34	47 29 14	87 53 94	127 78 74
8	4 96	48 29 76	88 54 56	128 79 36
9	5 58	49 30 38	89 55 18	129 79 98
10	6 20	50 31 00	90 55 80	130 80 60
11	6 82	51 31 62	91 56 42	131 81 22
12	7 44	52 32 24	92 57 04	132 81 84
13	8 06	53 32 86	93 57 66	133 82 46
14	8 68	54 33 48	94 58 28	134 83 08
15	9 30	55 34 10	95 58 90	135 83 70
16	9 92	56 34 72	96 59 52	136 84 32
17	10 54	57 35 34	97 60 14	137 84 94
18	11 16	58 35 96	98 60 76	138 85 56
19	11 78	59 36 58	99 61 38	139 86 18
20	12 40	60 37 20	100 62 00	140 86 80
21	13 02	61 37 82	101 62 62	141 87 42
22	13 64	62 38 44	102 63 24	142 88 04
23	14 26	63 39 06	103 63 86	143 88 66
24	14 88	64 39 68	104 64 48	144 89 28
25	15 50	65 40 30	105 65 10	145 89 90
26	16 12	66 40 92	106 65 72	146 90 52
27	16 74	67 41 54	107 66 34	147 91 14
28	17 36	68 42 16	108 66 96	148 91 76
29	17 98	69 42 78	109 67 58	149 92 38
30	18 60	70 43 40	110 68 20	150 93 00
31	19 22	71 44 02	111 68 82	151 93 62
32	19 84	72 44 64	112 69 44	152 94 24
33	20 46	73 45 26	113 70 06	153 94 86
34	21 08	74 45 88	114 70 68	154 95 48
35	21 70	75 46 50	115 71 30	155 96 10
36	22 32	76 47 12	116 71 92	156 96 72
37	22 94	77 47 74	117 72 54	157 97 34
38	23 56	78 48 36	118 73 16	158 97 96
39	24 18	79 48 98	119 73 78	159 98 58
40	24 80	80 49 60	120 74 40	160 99 20
161	99 82			
162	100 44			
163	101 06			
164	101 68			
165	102 30			
166	102 92			
167	103 54			
168	104 16			
169	104 78			
170	105 40			
171	106 02			
172	106 64			
173	107 26			
174	107 88			
175	108 50			
176	109 12			
177	109 74			
178	110 36			
179	110 98			
180	111 60			
181	112 22			
182	112 84			
183	113 46			
184	114 08			
185	114 70			
186	115 32			
187	115 94			
188	116 56			
189	117 18			
190	117 80			
191	118 42			
192	119 04			
193	119 66			
194	120 28			
195	120 90			
196	121 52			
197	122 14			
198	122 76			
199	123 38			
200	124 00			



# NO. 63.

N N N N N

1	0 63	41 25 83	81 51 03	121 76 23	161 101 43
2	1 26	42 26 46	82 51 66	122 76 86	162 102 06
3	1 89	43 27 09	83 52 29	123 77 49	163 102 69
4	2 52	44 27 72	84 52 92	124 78 12	164 103 32
5	3 15	45 28 35	85 53 55	125 78 75	165 103 95
6	3 78	46 28 98	86 54 18	126 79 38	166 104 58
7	4 41	47 29 61	87 54 81	127 80 01	167 105 21
8	5 04	48 30 24	88 55 44	128 80 64	168 105 84
9	5 67	49 30 87	89 56 07	129 81 27	169 106 47
10	6 30	50 31 50	90 56 70	130 81 90	170 107 10
11	6 93	51 32 13	91 57 33	131 82 53	171 107 73
12	7 56	52 32 76	92 57 96	132 83 16	172 108 35
13	8 19	53 33 39	93 58 59	133 83 79	173 108 99
14	8 82	54 34 02	94 59 22	134 84 42	174 109 62
15	9 45	55 34 65	95 59 85	135 85 05	175 110 25
16	10 08	56 35 28	96 60 48	136 85 68	176 110 88
17	10 71	57 35 91	97 61 11	137 86 31	177 111 51
18	11 34	58 36 54	98 61 74	138 86 94	178 112 14
19	11 97	59 37 17	99 62 37	139 87 57	179 112 77
20	12 60	60 37 80	100 63 00	140 88 20	180 113 40
21	13 23	61 38 43	101 63 63	141 88 83	181 114 03
22	13 86	62 39 06	102 64 26	142 89 46	182 114 66
23	14 49	63 39 69	103 64 89	143 90 09	183 115 29
24	15 12	64 40 32	104 65 52	144 90 72	184 115 92
25	15 75	65 40 95	105 66 15	145 91 35	185 116 55
26	16 38	66 41 58	106 66 78	146 91 98	186 117 18
27	17 01	67 42 21	107 67 41	147 92 61	187 117 81
28	17 64	68 42 84	108 68 04	148 93 24	188 118 44
29	18 27	69 43 47	109 68 67	149 93 87	189 119 07
30	18 90	70 44 10	110 69 30	150 94 50	190 119 70
31	19 53	71 44 73	111 69 93	151 95 13	191 120 33
32	20 16	72 45 36	112 70 56	152 95 76	192 120 96
33	20 79	73 45 99	113 71 19	153 96 39	193 121 59
34	21 42	74 46 62	114 71 82	154 97 02	194 122 22
35	22 05	75 47 25	115 72 45	155 97 65	195 122 85
36	22 68	76 47 88	116 73 08	156 98 28	196 123 48
37	23 31	77 48 51	117 73 71	157 98 91	197 124 11
38	23 94	78 49 14	118 74 34	158 99 54	198 124 74
39	24 57	79 49 77	119 74 97	159 100 17	199 125 37
40	25 20	80 50 40	120 75 60	160 100 80	200 125 90

# NO. 64

N	N	N	N	N
1	0 64	41 26 24	81 51 84	121 77 44
2	1 28	42 26 88	82 52 48	122 78 08
3	1 92	43 37 52	83 53 12	123 78 72
4	2 56	44 28 16	84 53 76	124 79 36
5	3 20	45 28 80	85 54 40	125 80 00
6	3 84	46 29 44	86 55 04	126 80 64
7	4 48	47 30 08	87 55 68	127 81 28
8	5 12	48 30 72	88 56 32	128 81 92
9	5 76	49 31 36	89 56 96	129 82 56
10	6 40	50 32 00	90 57 60	130 83 20
11	7 04	51 32 64	91 58 24	131 83 84
12	7 68	52 33 28	92 58 88	132 84 48
13	8 32	53 33 92	93 59 52	133 85 12
14	8 96	54 34 56	94 60 16	134 85 76
15	9 60	55 35 20	95 60 80	135 86 40
16	10 24	56 35 84	96 61 44	136 87 04
17	10 88	57 36 48	97 62 08	137 87 68
18	11 52	58 37 12	98 62 72	138 88 32
19	12 16	59 37 76	99 63 36	139 88 96
20	12 80	60 38 40	100 64 00	140 89 60
21	13 44	61 39 04	101 64 64	141 90 24
22	14 08	62 39 68	102 65 28	142 90 88
23	14 72	63 40 32	103 65 92	143 91 52
24	15 36	64 40 96	104 66 56	144 92 16
25	16 00	65 41 60	105 67 20	145 92 80
26	16 64	66 42 24	106 67 84	146 93 44
27	17 28	67 42 88	107 68 48	147 94 08
28	17 92	68 43 52	108 69 12	148 94 72
29	18 56	69 44 16	109 69 76	149 95 36
30	19 20	70 44 80	110 70 40	150 96 00
31	19 84	71 45 44	111 71 04	151 96 64
32	20 48	72 46 08	112 71 68	152 97 28
33	21 12	73 46 72	113 72 32	153 97 92
34	21 76	74 47 36	114 72 96	154 98 56
35	22 40	75 48 00	115 73 60	155 99 20
36	23 04	76 48 64	116 74 24	156 99 84
37	23 68	77 49 28	117 74 88	157 100 48
38	24 32	78 49 92	118 75 52	158 101 12
39	24 96	79 50 56	119 76 16	159 101 76
40	25 60	80 51 20	120 76 80	160 102 40
				161 103 04
				162 103 68
				163 104 32
				164 104 96
				165 105 60
				166 106 24
				167 106 88
				168 107 52
				169 108 16
				170 108 80
				171 109 44
				172 110 08
				173 110 72
				174 111 36
				175 112 00
				176 112 64
				177 113 28
				178 113 92
				179 114 56
				180 115 20
				181 115 84
				182 116 48
				183 117 12
				184 117 76
				185 118 40
				186 119 04
				187 119 68
				188 120 32
				189 120 96
				190 121 60
				191 122 24
				192 122 88
				193 123 52
				194 124 16
				195 124 80
				196 125 44
				197 126 08
				198 126 72
				199 127 36
				200 128 00

# NO. 65.

N	N	N	N	N
1 0 65	11 26 65	81 52 65	121 78 65	161 104 65
2 1 30	12 27 30	82 53 30	122 79 30	162 105 30
3 1 95	13 27 95	83 53 95	123 79 95	163 105 95
4 2 60	14 28 60	84 54 60	124 80 60	164 106 60
5 3 25	15 29 25	85 55 25	125 81 25	165 107 25
6 3 90	16 29 90	86 55 90	126 81 90	166 107 90
7 4 55	17 30 55	87 56 55	127 82 55	167 108 55
8 5 20	18 31 20	88 57 20	128 83 20	168 109 20
9 5 85	19 31 85	89 57 85	129 83 85	169 109 85
10 6 50	20 32 50	90 58 50	130 84 50	170 110 50
11 7 15	21 33 15	91 59 15	131 85 15	171 111 15
12 7 80	22 33 80	92 59 80	132 85 80	172 111 80
13 8 45	23 34 45	93 60 45	133 86 45	173 112 45
14 9 10	24 35 10	94 61 10	134 87 10	174 113 10
15 9 75	25 35 75	95 61 75	135 87 75	175 113 75
16 10 40	26 36 40	96 62 40	136 88 40	176 114 40
17 11 05	27 37 05	97 63 05	137 89 05	177 115 05
18 11 70	28 37 70	98 63 70	138 89 70	178 115 70
19 12 35	29 38 35	99 64 35	139 90 35	179 116 35
20 13 00	30 39 00	100 65 00	140 91 00	180 117 00
21 13 65	31 39 65	101 65 65	141 91 65	181 117 65
22 14 30	32 40 30	102 66 30	142 92 30	182 118 30
23 14 95	33 40 95	103 66 95	143 92 95	183 118 95
24 15 60	34 41 60	104 67 60	144 93 60	184 119 60
25 16 25	35 42 25	105 68 25	145 94 25	185 120 25
26 16 90	36 42 90	106 68 90	146 94 90	186 120 90
27 17 55	37 43 55	107 69 55	147 95 55	187 121 55
28 18 20	38 44 20	108 70 20	148 96 20	188 122 20
29 18 85	39 44 85	109 70 85	149 96 85	189 122 85
30 19 50	40 45 50	110 71 50	150 97 50	190 123 50
31 20 15	41 46 15	111 72 15	151 98 15	191 124 15
32 20 80	42 46 80	112 72 80	152 98 80	192 124 80
33 21 45	43 47 45	113 73 45	153 99 45	193 125 45
34 22 10	44 48 10	114 74 10	154 100 10	194 126 10
35 22 75	45 48 75	115 74 75	155 100 75	195 126 75
36 23 40	46 49 40	116 75 40	156 101 40	196 127 40
37 24 05	47 50 05	117 76 05	157 102 05	197 128 05
38 24 70	48 50 70	118 76 70	158 102 70	198 128 70
39 25 35	49 51 35	119 77 35	159 103 35	199 129 35
40 26 00	50 52 00	120 78 00	160 104 00	200 130 00

# NO. 66.

N	N	N	N	N
1	0 66	41 27 06	81 53 46	121 79 86
2	1 32	42 27 72	82 54 12	122 80 52
3	1 98	43 28 38	83 54 78	123 81 18
4	2 64	44 29 04	84 55 44	124 81 84
5	3 30	45 29 70	85 56 10	125 82 50
6	3 96	46 30 36	86 56 76	126 83 16
7	4 62	47 31 02	87 57 42	127 83 82
8	5 28	48 31 68	88 58 08	128 84 48
9	5 94	49 32 34	89 58 74	129 85 14
10	6 60	50 33 00	90 59 40	130 85 80
11	7 26	51 33 66	91 60 06	131 86 46
12	7 92	52 34 32	92 60 72	132 87 12
13	8 58	53 34 98	93 61 38	133 87 78
14	9 24	54 35 64	94 62 04	134 88 44
15	9 90	55 36 30	95 62 70	135 89 10
16	10 56	56 36 96	96 63 36	136 89 76
17	11 22	57 37 62	97 64 02	137 90 42
18	11 88	58 38 28	98 64 68	138 91 08
19	12 54	59 38 94	99 65 34	139 91 74
20	13 20	60 39 60	100 66 00	140 92 40
21	13 86	61 40 26	101 66 66	141 93 06
22	14 52	62 40 92	102 67 32	142 93 72
23	15 18	63 41 58	103 67 98	143 94 38
24	15 84	64 42 24	104 68 64	144 95 04
25	16 50	65 42 90	105 69 30	145 95 70
26	17 16	66 43 56	106 69 96	146 96 36
27	17 82	67 44 22	107 70 62	147 97 02
28	18 48	68 44 88	108 71 28	148 97 68
29	19 14	69 45 54	109 71 94	149 98 34
30	19 80	70 46 20	110 72 60	150 99 00
31	20 46	71 46 86	111 73 26	151 99 66
32	21 12	72 47 52	112 73 92	152 100 32
33	21 78	73 48 18	113 74 58	153 100 98
34	22 44	74 48 84	114 75 24	154 101 64
35	23 10	75 49 50	115 75 90	155 102 30
36	23 76	76 50 16	116 76 56	156 102 96
37	24 42	77 50 82	117 77 22	157 103 62
38	25 08	78 51 48	118 77 88	158 104 28
39	25 74	79 52 14	119 78 54	159 104 94
40	26 40	80 52 80	120 79 20	160 105 60
				365 240 90



# NO. 67.

N.	N.	N.	N.	N.
1	0 67	41 27 47	81 54 27	121 81 07
2	1 34	42 28 14	82 54 94	122 81 74
3	2 01	43 28 31	83 55 61	123 82 41
4	2 68	44 29 48	84 56 28	124 83 08
5	3 35	45 30 15	85 56 95	125 83 75
6	4 02	46 30 82	86 57 62	126 84 42
7	4 69	47 31 49	87 58 29	127 85 09
8	5 36	48 32 16	88 58 96	128 85 76
9	6 03	49 32 83	89 59 63	129 86 43
10	6 70	50 33 50	90 60 30	130 87 10
11	7 37	51 34 17	91 60 97	131 87 77
12	8 04	52 34 84	92 61 64	132 88 44
13	8 71	53 35 51	93 62 31	133 89 11
14	9 38	54 36 18	94 62 98	134 89 78
15	10 05	55 35 85	95 63 65	135 90 45
16	10 72	56 37 52	96 64 32	136 91 12
17	11 39	57 38 19	97 64 99	137 91 79
18	12 06	58 38 86	98 65 66	138 92 46
19	12 73	59 39 53	99 66 33	139 93 13
20	13 40	60 40 20	100 67 00	140 93 80
21	14 07	61 40 87	101 67 67	141 94 47
22	14 74	62 41 54	102 68 34	142 95 14
23	15 41	63 42 21	103 69 01	143 95 81
24	16 08	64 42 88	104 69 68	144 96 48
25	16 75	65 43 55	105 70 35	145 97 15
26	17 42	66 44 22	106 71 02	146 97 82
27	18 09	67 44 89	107 71 69	147 98 49
28	18 76	68 45 56	108 72 36	148 99 16
29	19 43	69 46 23	109 73 03	149 99 83
30	20 10	70 46 90	110 73 70	150 100 50
31	20 77	71 47 57	111 74 37	151 101 17
32	21 44	72 48 24	112 75 04	152 101 84
33	22 11	73 48 91	113 75 71	153 102 51
34	22 78	74 49 58	114 76 38	154 103 18
35	23 45	75 50 25	115 77 05	155 103 85
36	24 12	76 50 92	116 77 72	156 104 52
37	24 79	77 51 59	117 78 39	157 105 19
38	25 46	78 52 26	118 79 06	158 105 86
39	26 13	79 52 93	119 79 73	159 106 53
40	26 80	80 53 60	120 80 40	160 107 20
				366 124 55

# NO. 68.

N	N	N	N	N
1 0 08	41 27 88	81 55 08	121 82 28	161 109 48
2 1 30	42 28 56	82 55 76	122 82 96	162 110 16
3 2 04	43 29 24	83 56 44	123 83 64	163 110 84
4 2 72	44 29 92	84 57 12	124 84 32	164 111 52
5 3 40	45 30 60	85 57 80	125 85 00	165 112 20
6 4 08	46 31 28	86 58 48	126 85 68	166 112 88
7 4 76	47 31 96	87 59 16	127 86 36	167 113 56
8 5 44	48 32 64	88 59 84	128 87 04	168 114 24
9 6 12	49 33 32	89 60 52	129 87 72	169 114 92
10 6 80	50 34 00	90 61 20	130 88 40	170 115 60
11 7 48	51 34 68	91 61 88	131 89 08	171 116 28
12 8 16	52 35 36	92 62 56	132 89 76	172 116 96
13 8 84	53 36 04	93 63 24	133 90 44	173 117 64
14 9 52	54 36 72	94 63 92	134 91 12	174 118 32
15 10 20	55 37 40	94 64 60	135 91 80	175 119 00
16 10 88	56 38 08	96 65 28	136 92 48	176 119 68
17 11 56	57 38 76	97 65 96	137 93 16	177 120 36
18 12 24	58 39 44	98 66 64	138 93 84	178 121 04
19 12 92	59 40 12	99 67 32	139 94 52	179 121 72
20 13 60	50 40 80	100 68 00	140 95 20	180 122 40
21 14 28	51 41 48	101 68 68	141 95 88	181 123 08
22 14 96	62 42 16	102 69 36	142 96 56	182 123 76
23 15 64	63 42 84	103 70 04	143 97 24	183 124 44
24 16 32	64 43 52	104 70 72	144 97 92	184 125 12
25 17 00	65 44 20	105 71 40	145 98 60	185 125 80
26 17 68	66 44 88	106 72 08	146 99 28	186 126 48
27 18 36	67 45 56	107 72 76	147 99 96	187 127 16
28 19 04	68 46 24	108 73 44	148 100 64	188 127 84
29 19 72	69 46 92	109 74 12	149 101 32	189 128 52
30 20 40	70 47 60	110 74 80	150 102 00	190 129 20
31 21 08	71 48 28	111 75 48	151 102 68	191 129 88
32 21 76	72 48 96	112 76 16	152 103 36	192 130 56
33 22 44	73 49 64	113 76 84	153 104 04	193 131 24
34 23 12	74 50 32	114 77 52	154 104 72	194 131 92
35 23 80	75 51 00	115 78 20	155 105 40	195 132 60
36 24 48	76 51 68	116 78 88	156 106 08	196 133 28
37 25 16	77 52 36	117 79 56	157 106 76	197 133 96
38 25 84	78 53 04	118 80 24	158 107 44	198 134 64
39 26 52	79 53 72	119 80 92	159 108 12	199 135 32
40 27 20	80 54 40	120 81 60	160 108 80	200 136 00

1	0	69	41	26	29	81	55	59	121	83	49	161	111	09
2	1	38	42	28	98	82	56	58	122	84	18	162	111	78
3	2	07	43	29	67	83	57	27	123	84	87	163	112	47
4	2	76	44	30	36	84	57	96	124	85	56	164	113	16
5	3	45	45	31	05	85	58	65	125	86	25	165	113	85
6	4	14	46	31	74	86	59	34	126	86	94	166	114	54
7	4	83	47	32	43	87	60	03	127	87	63	167	115	23
8	5	52	48	33	12	88	60	72	128	88	32	168	115	92
9	6	21	49	33	81	89	61	41	129	89	01	169	116	61
10	6	90	50	34	50	90	62	10	130	89	70	170	117	30
11	7	59	51	35	19	91	62	79	131	90	39	171	117	99
12	8	28	52	35	88	92	63	48	132	91	08	172	118	68
13	8	97	53	36	57	93	64	17	133	91	77	173	119	37
14	9	66	54	37	26	94	64	86	134	92	46	174	120	06
15	10	35	55	37	95	95	65	55	135	93	15	175	120	75
16	11	04	56	38	64	96	65	24	136	93	84	176	121	44
17	11	73	57	39	33	97	66	93	137	94	53	177	122	13
18	12	42	58	40	02	98	67	62	138	95	22	178	122	82
19	13	11	59	40	71	99	68	31	139	95	91	179	123	51
20	13	80	60	41	40	100	69	00	140	96	60	180	124	20
21	14	49	61	42	09	101	69	69	141	97	29	181	124	89
22	15	18	62	42	78	102	70	38	142	97	98	182	125	58
23	15	87	63	43	47	103	71	07	143	98	67	183	126	27
24	16	56	64	44	16	104	71	76	144	99	36	184	126	96
25	17	25	65	44	85	105	72	45	145	100	05	185	127	65
26	17	94	66	45	54	106	73	14	146	100	74	186	128	34
27	18	63	67	45	23	107	73	83	147	101	43	187	129	03
28	19	32	68	46	92	108	74	52	148	102	12	188	129	72
29	20	01	69	47	61	109	75	21	149	102	81	189	130	41
30	20	70	70	48	30	110	75	90	150	103	50	190	131	10
31	21	39	71	48	99	111	76	59	151	104	19	191	131	79
32	22	08	72	49	68	112	77	28	152	104	88	192	132	48
33	22	77	73	50	37	113	77	97	153	105	57	193	133	17
34	23	46	74	51	06	114	78	66	154	106	26	194	133	86
35	24	15	75	51	75	115	79	35	155	106	95	195	134	55
36	24	84	76	52	44	116	80	04	156	107	64	196	135	24
37	25	53	77	53	13	117	80	73	157	108	33	197	135	93
38	25	22	78	53	82	118	81	42	158	109	02	198	136	62
39	26	91	79	54	51	119	82	11	159	109	71	199	137	31
40	27	60	80	55	20	120	82	80	160	110	40	200	138	00

# NO. 70.

N	N	N	N	N
1 0 70	41 28 70	81 56 70	121 84 70	161 112 70
2 1 40	42 29 40	82 57 40	122 85 40	162 113 40
3 2 10	43 30 10	83 58 10	123 86 10	163 114 10
4 2 80	44 30 80	84 58 80	124 86 80	164 114 80
5 3 50	45 31 50	85 59 50	125 87 50	165 115 50
6 4 20	46 32 20	86 60 20	126 88 20	166 116 20
7 4 90	47 32 90	87 60 90	127 88 90	167 116 90
8 5 60	48 33 60	88 61 60	128 89 60	168 117 60
9 6 30	49 34 30	89 62 30	129 90 30	169 118 30
10 7 00	50 35 00	90 63 00	130 91 00	170 119 00
11 7 70	51 35 70	91 63 70	131 91 70	171 119 70
12 8 40	52 36 40	92 64 40	132 92 40	172 120 40
13 9 10	53 37 10	93 65 10	133 93 10	173 121 10
14 9 80	54 37 80	94 65 80	134 93 80	174 121 80
15 10 50	55 38 50	95 66 50	135 94 50	175 122 50
16 11 20	56 39 20	96 67 20	136 95 20	176 123 20
17 11 90	57 39 90	97 67 90	137 95 90	177 123 90
18 12 60	58 40 60	98 68 60	138 96 60	178 124 60
19 13 30	59 41 30	99 69 30	139 97 30	179 125 30
20 14 00	60 42 00	100 70 00	140 98 00	180 126 00
21 14 70	61 42 70	101 70 70	141 98 70	181 126 70
22 15 40	62 43 40	102 71 40	142 99 40	182 127 40
23 16 10	63 44 10	103 72 10	143 100 10	183 128 10
24 16 80	64 44 80	104 72 80	144 100 80	184 128 80
25 17 50	65 45 50	105 73 50	145 101 50	185 129 50
26 18 20	66 46 20	106 74 20	146 102 20	186 130 20
27 18 90	67 46 90	107 74 90	147 102 90	187 130 90
28 19 60	68 47 60	108 75 60	148 103 60	188 131 60
29 20 30	69 48 30	109 76 30	149 104 30	189 132 30
30 21 00	70 49 00	110 77 00	150 105 00	190 133 00
31 21 70	71 49 70	111 77 70	151 105 70	191 133 70
32 22 40	72 50 40	112 78 40	152 106 40	192 134 40
33 23 10	73 51 10	113 79 10	153 107 10	193 135 10
34 23 80	74 51 80	114 79 80	154 107 80	194 135 80
35 24 50	75 52 50	115 80 50	155 108 50	195 136 50
36 25 20	76 53 20	116 81 20	156 109 20	196 137 20
37 25 90	77 53 90	117 81 90	157 109 90	197 137 90
38 26 60	78 54 60	118 82 60	158 110 60	198 138 60
39 27 30	79 55 30	119 83 30	159 111 30	199 139 30
40 28 00	80 56 00	120 84 00	160 112 00	365 255 50



# NO. 71.

N

N

N

N

N

1	0	71	11	29	11	81	57	51	121	85	91	161	114	31
2	1	42	42	29	82	82	58	22	122	86	62	162	115	02
3	2	13	43	30	53	83	58	93	123	87	33	163	115	73
4	2	84	44	31	24	84	59	64	124	88	04	164	116	44
5	3	55	45	31	95	85	60	35	125	88	75	165	117	15
6	4	26	46	32	66	86	61	06	126	89	46	166	117	86
7	4	97	47	33	37	87	61	77	127	90	17	167	118	57
8	5	68	48	34	08	88	62	48	128	90	88	168	119	28
9	6	39	49	34	79	89	63	19	129	91	59	169	119	99
10	7	10	50	35	50	90	63	90	130	92	30	170	120	70
11	7	81	51	36	21	91	64	61	131	93	01	171	121	41
12	8	52	52	36	92	92	65	32	132	93	72	172	122	12
13	9	23	53	37	63	93	66	03	133	94	43	173	122	83
14	9	94	54	38	34	94	66	74	134	95	14	174	123	54
15	10	65	55	39	05	95	67	45	135	95	85	175	124	25
16	11	36	56	39	76	96	68	16	136	96	56	176	124	96
17	12	07	57	40	47	97	68	87	137	97	27	177	125	67
18	12	78	58	41	18	88	69	58	138	97	98	178	126	38
19	13	49	59	41	89	99	70	29	139	98	69	179	127	09
20	14	20	60	42	60	100	71	00	140	99	40	180	127	80
21	14	91	61	43	31	101	71	71	141	100	11	181	128	51
22	15	62	62	44	02	102	72	42	142	100	82	182	129	22
23	16	33	63	44	73	103	73	13	143	101	53	183	129	93
24	17	04	64	45	44	104	73	84	144	102	24	184	130	64
25	17	75	65	46	15	105	74	55	145	102	95	185	131	35
26	18	46	66	46	86	106	75	26	146	103	66	186	132	06
27	19	17	67	47	57	107	75	97	147	104	37	187	132	77
28	19	88	68	48	28	108	76	68	148	105	08	188	133	48
29	20	59	69	48	99	109	77	39	149	105	79	189	134	19
30	21	30	70	49	70	110	78	10	150	106	50	190	134	90
31	22	01	71	50	41	111	78	81	151	107	21	191	135	61
32	22	72	72	51	12	112	79	52	152	107	92	192	136	32
33	23	43	73	51	83	113	80	23	153	108	63	193	137	03
34	24	14	74	52	54	114	80	94	154	109	34	194	137	74
35	24	85	75	53	25	115	81	65	155	110	05	195	138	45
36	25	56	76	53	96	116	82	36	156	110	76	196	139	16
37	26	27	77	54	67	117	83	07	157	111	47	197	139	87
38	26	98	78	55	38	118	83	78	158	112	18	198	140	58
39	27	69	79	56	09	119	84	49	159	112	89	199	141	29
40	28	40	80	56	80	120	85	20	160	113	60	200	259	15

N	N	N	N	N
1	0 72	41 29 52	81 58 32	121 87 12
2	1 44	42 30 24	82 59 04	122 87 84
3	2 16	43 30 96	83 59 76	123 88 56
4	2 88	44 31 68	84 60 48	124 89 28
5	3 60	45 32 40	85 61 20	125 90 00
6	4 32	46 33 12	86 61 92	126 90 72
7	5 04	47 33 84	87 62 64	127 91 44
8	5 76	48 34 56	88 63 36	128 92 16
9	6 48	49 35 28	89 64 08	129 92 88
10	7 20	50 36 00	90 64 80	130 93 60
11	7 92	51 36 72	91 65 52	131 94 32
12	8 64	52 37 44	92 66 24	132 95 04
13	9 36	53 38 16	93 66 96	133 95 76
14	10 08	54 38 88	94 67 68	134 96 48
15	10 80	55 39 60	95 68 40	135 97 20
16	11 52	56 40 32	96 69 12	136 97 92
17	12 24	57 41 04	97 69 84	137 98 64
18	12 96	58 41 76	98 70 56	138 99 36
19	13 68	59 42 48	99 71 28	139 100 08
20	14 40	60 43 20	100 72 00	140 100 80
21	15 12	61 43 92	101 72 72	141 101 52
22	15 84	62 44 64	102 73 44	142 102 24
23	16 56	63 45 36	103 74 16	143 102 96
24	17 28	64 46 08	104 74 88	144 103 68
25	18 00	65 46 80	105 75 60	145 104 40
26	18 72	66 47 52	106 76 32	146 105 12
27	19 44	67 48 24	107 77 04	147 105 84
28	20 16	68 48 96	108 77 76	148 106 56
29	20 88	69 49 68	109 78 48	149 107 28
30	21 60	70 50 40	110 79 20	150 108 00
31	22 32	71 51 12	111 79 92	151 108 72
32	23 04	72 51 84	112 80 64	152 109 44
33	23 76	73 52 56	113 81 36	153 110 16
34	24 48	74 53 28	114 82 08	154 110 88
35	25 20	75 54 00	115 82 80	155 111 60
36	25 92	76 54 72	116 83 52	156 112 32
37	26 64	77 55 44	117 84 24	157 113 04
38	27 36	78 56 16	118 84 96	158 113 76
39	28 08	79 56 88	119 85 68	159 114 48
40	28 80	80 57 60	120 86 40	160 115 20
				365 262 80

# NO. 73.

N	N	N	N	N
1	0 73	11 29 93	81 59 13	121 88 33
2	1 46	42 30 66	82 59 86	122 89 06
3	2 19	43 31 39	83 60 59	123 89 79
4	2 92	44 32 12	84 61 32	124 90 52
5	3 65	45 32 85	85 62 05	125 91 25
6	4 38	46 33 58	86 62 78	126 91 98
7	5 11	47 34 31	87 63 51	127 92 71
8	5 84	48 35 04	88 64 24	128 93 44
9	6 57	49 35 77	89 64 97	129 94 17
10	7 30	50 36 50	90 65 70	130 94 90
11	8 03	51 37 23	91 66 43	131 95 63
12	8 76	52 37 96	92 67 16	132 96 36
13	9 49	53 38 69	93 67 89	133 97 09
14	10 22	54 39 42	94 68 62	134 97 82
15	10 95	55 40 15	95 69 35	135 98 55
16	11 68	56 40 88	96 70 08	136 99 28
17	12 41	57 41 61	97 70 81	137 100 01
18	13 14	58 42 34	98 71 54	138 100 74
19	13 87	59 43 07	99 72 27	139 101 47
20	14 60	60 43 80	100 73 00	140 102 20
21	15 33	61 44 53	101 73 73	141 102 93
22	16 06	62 45 26	102 74 46	142 103 66
23	16 79	63 45 99	103 75 19	143 104 39
24	17 52	64 46 72	104 75 92	144 105 12
25	18 25	65 47 45	105 76 65	145 105 85
26	18 98	66 48 18	106 77 38	146 106 58
27	19 71	67 48 91	107 78 11	147 107 31
28	20 44	68 49 64	108 78 84	148 108 04
29	21 17	69 50 37	109 79 57	149 108 77
30	21 90	70 51 10	110 80 30	150 109 50
31	22 63	71 51 83	111 81 03	151 110 23
32	23 36	72 52 56	112 81 76	152 110 96
33	24 09	73 53 29	113 82 49	153 111 69
34	24 82	74 54 02	114 83 22	154 112 42
35	25 55	75 54 75	115 83 95	155 113 15
36	26 28	76 55 48	116 84 68	156 113 88
37	27 01	77 56 21	117 85 41	157 114 61
38	27 74	78 56 94	118 86 14	158 115 34
39	28 47	79 57 67	119 86 87	159 116 07
40	29 20	80 58 40	120 87 60	160 116 80
				161 117 53
				162 118 26
				163 118 99
				164 119 72
				165 120 45
				166 121 18
				167 121 91
				168 122 64
				169 123 37
				170 124 10
				171 124 83
				172 125 56
				173 126 29
				174 127 02
				175 127 75
				176 128 48
				177 129 21
				178 129 94
				179 130 67
				180 131 40
				181 132 13
				182 132 86
				183 133 59
				184 134 32
				185 135 05
				186 135 78
				187 136 51
				188 137 24
				189 137 97
				190 138 70
				191 139 43
				192 140 16
				193 140 89
				194 141 62
				195 142 35
				196 143 08
				197 143 81
				198 144 54
				199 145 27
				200 146 00



# NO. 74.

N	N	N	N	N
1 0 74	41 30 34	81 59 94	121 89 54	161 119 14
2 1 48	42 31 08	82 60 68	122 90 28	162 119 88
3 2 22	43 31 82	83 61 42	123 91 02	163 120 62
4 2 96	44 32 56	84 62 16	124 91 76	164 121 36
5 3 70	45 33 30	85 62 90	125 92 50	165 122 10
6 4 44	46 34 04	86 63 64	126 93 24	166 122 84
7 5 18	47 34 78	87 64 38	127 93 98	167 123 58
8 5 92	48 35 52	88 65 12	128 94 72	168 124 32
9 6 66	49 36 26	89 65 86	129 95 46	169 125 06
10 7 40	50 37 00	90 66 60	130 96 20	170 125 80
11 8 14	51 37 74	91 67 34	131 96 94	171 126 54
12 8 88	52 38 48	92 68 08	132 97 68	172 127 28
13 9 62	53 39 22	93 68 82	133 98 42	173 128 02
14 10 36	54 39 96	94 69 56	134 99 16	174 128 76
15 11 10	55 40 70	95 70 30	135 99 90	175 129 50
16 11 84	56 41 44	96 71 04	136 100 64	176 130 24
17 12 58	57 42 18	97 71 78	137 101 38	177 130 98
18 13 32	58 42 92	98 72 52	138 102 12	178 131 72
19 14 06	59 43 66	99 73 26	139 102 86	179 132 46
20 14 80	60 44 40	100 74 00	140 103 60	180 133 20
21 15 54	61 45 14	101 74 74	141 104 34	181 133 94
22 16 28	62 45 88	102 75 48	142 105 08	182 134 68
23 17 02	63 46 62	103 76 22	143 105 82	183 135 42
24 17 76	64 47 36	104 76 96	144 106 56	184 136 16
25 18 50	65 48 10	105 77 70	145 107 30	185 136 90
26 19 24	66 48 84	106 78 44	146 108 04	186 137 64
27 19 98	67 49 58	107 79 18	147 108 78	187 138 38
28 20 72	68 50 32	108 79 92	148 109 52	188 139 12
29 21 46	69 51 06	109 80 66	149 110 26	189 139 86
30 22 20	70 51 80	110 81 40	150 111 00	190 140 60
31 22 94	71 52 54	111 82 14	151 111 74	191 141 34
32 23 68	72 53 28	112 82 88	152 112 48	192 142 08
33 24 42	73 54 02	113 83 62	153 113 22	193 142 82
34 25 16	74 54 76	114 84 36	154 113 96	194 143 56
35 25 90	75 55 50	115 85 10	155 114 70	195 144 30
36 26 64	76 56 24	116 85 84	156 115 44	196 145 04
37 27 38	77 56 98	117 86 58	157 116 18	197 145 78
38 28 12	78 57 72	118 87 32	158 116 92	198 146 52
39 28 86	79 58 46	119 88 06	159 117 66	199 147 26
40 29 60	80 59 20	120 88 80	160 118 40	200 148 00



# NO. 75.

N

N

N

N

N

1	0 75	41	30 75	81	60 75	121	90 75	161	120 75
2	1 50	42	31 50	82	61 50	122	91 50	162	121 50
3	2 25	43	32 25	83	62 25	123	92 25	163	122 25
4	3 00	44	33 00	84	63 00	124	93 00	164	123 00
5	3 75	45	33 75	85	63 75	125	93 75	165	123 75
6	4 50	46	34 50	86	64 50	126	94 50	166	124 50
7	5 25	47	35 25	87	65 25	127	95 25	167	125 25
8	6 00	48	36 00	88	66 00	128	96 00	168	126 00
9	6 75	49	36 75	89	66 75	129	96 75	169	126 75
10	7 50	50	37 50	90	67 50	130	97 50	170	127 50
11	8 25	51	38 25	91	68 25	131	98 25	171	128 25
12	9 00	52	39 00	92	69 00	132	99 00	172	129 00
13	9 75	53	39 75	93	69 75	133	99 75	173	129 75
14	10 50	54	40 50	94	70 50	134	100 50	174	130 50
15	11 25	55	41 25	95	71 25	135	101 25	175	131 25
16	12 00	56	42 00	96	72 00	136	102 00	176	132 00
17	12 75	57	42 75	97	72 75	137	102 75	177	132 75
18	13 50	58	43 50	98	73 50	138	103 50	178	133 50
19	14 25	59	44 25	99	74 25	139	104 25	179	134 25
20	15 00	60	45 00	100	75 00	140	105 00	180	135 00
21	15 75	61	45 75	101	75 75	141	105 75	181	135 75
22	16 50	62	46 50	102	76 50	142	106 50	182	136 50
23	17 25	63	47 25	103	77 25	143	107 25	183	137 25
24	18 00	64	48 00	104	78 00	144	108 00	184	138 00
25	18 75	65	48 75	105	78 75	145	108 75	185	138 75
26	19 50	66	49 50	106	79 50	146	109 50	186	139 50
27	20 25	67	50 25	107	80 25	147	110 25	187	140 25
28	21 00	68	51 00	108	81 00	148	111 00	188	141 00
29	21 75	69	51 75	109	81 75	149	111 75	189	141 75
30	22 50	70	52 50	110	82 50	150	112 50	190	142 50
31	23 25	71	53 25	111	83 25	151	113 25	191	143 25
32	24 00	72	54 00	112	84 00	152	114 00	192	144 00
33	24 75	73	54 75	113	84 75	153	114 75	193	144 75
34	25 50	74	55 50	114	85 50	154	115 50	194	145 50
35	26 25	75	56 25	115	86 25	155	116 25	195	146 25
36	27 00	76	57 00	116	87 00	156	117 00	196	147 00
37	27 75	77	57 75	117	87 75	157	117 75	197	147 75
38	28 50	78	58 50	118	88 50	158	118 50	198	148 50
39	29 25	79	59 25	119	89 25	159	119 25	199	149 25
40	30 00	80	60 00	120	90 00	160	120 00	200	150 00

# NO. 76.

N	N	N	N	N
1 0 76	41 31 16	81 61 56	121 91 96	161 122 86
2 1 52	42 31 92	82 62 32	122 92 72	162 123 12
3 2 28	43 32 68	83 63 08	123 93 48	163 123 88
4 3 04	44 33 44	84 63 84	124 94 24	164 124 64
5 3 80	45 34 20	85 64 60	125 95 00	165 125 40
6 4 56	46 34 96	86 65 36	126 95 76	166 126 16
7 5 32	47 35 72	87 66 12	127 96 52	167 126 92
8 6 08	48 36 48	88 66 88	128 97 28	168 127 68
9 6 84	49 37 24	89 67 64	129 98 04	169 128 44
0 7 60	50 38 00	90 68 40	130 98 80	170 129 20
1 8 36	51 38 76	91 69 16	131 99 56	171 129 96
2 9 12	52 39 52	92 69 92	132 100 32	172 130 72
3 9 88	53 40 28	93 70 68	133 101 08	173 131 48
4 10 64	54 41 04	94 71 44	134 101 84	174 132 24
5 11 40	55 41 80	95 72 20	135 102 60	175 133 00
6 12 16	56 42 56	96 72 96	136 103 36	176 133 76
7 12 92	57 43 32	97 73 72	137 104 12	177 134 52
8 13 68	58 44 08	98 74 48	138 104 88	178 135 28
9 14 44	59 44 84	99 75 24	139 105 64	179 136 04
0 15 20	60 45 60	100 76 00	140 106 40	180 136 80
1 15 96	61 46 36	101 76 76	141 107 16	181 137 56
2 16 72	62 47 12	102 77 52	142 107 92	182 138 32
3 17 48	63 47 88	103 78 28	143 108 68	183 139 08
4 18 24	64 48 64	104 79 04	144 109 44	184 139 84
5 19 00	65 49 40	105 79 80	145 110 20	185 140 60
6 19 76	66 50 16	106 80 56	146 110 96	186 141 36
7 20 52	67 50 92	107 81 32	147 111 72	187 142 12
8 21 28	68 51 68	108 82 08	148 112 48	188 142 88
9 22 04	69 52 44	109 82 84	149 113 24	189 143 64
0 22 80	70 53 20	110 83 60	150 114 00	190 144 40
1 23 56	71 53 96	111 84 36	151 114 76	191 145 16
2 24 32	72 54 72	112 85 12	152 115 52	192 145 92
3 25 08	73 55 48	113 85 88	153 116 28	193 146 68
4 25 84	74 56 24	114 86 64	154 117 04	194 147 44
5 26 60	75 57 00	115 87 40	155 117 80	195 148 20
6 27 36	76 57 76	116 88 16	156 118 56	196 148 96
7 28 12	77 58 52	117 88 92	157 119 32	197 149 72
8 28 88	78 59 28	118 89 68	158 120 08	198 150 48
9 29 64	79 60 04	119 90 44	159 120 84	199 151 24
0 30 40	80 60 80	120 91 20	160 121 60	200 151 00

# NO. 77.

N	N	N	N	N
1	0 77	41 31 57	81 62 37	121 92 17
2	1 54	42 32 34	82 63 14	122 93 94
3	2 31	43 33 11	83 63 91	123 94 71
4	3 08	44 33 88	84 64 68	124 95 48
5	3 85	45 34 65	85 65 45	125 96 25
6	4 62	46 35 42	86 66 22	126 97 02
7	5 39	47 36 19	87 66 99	127 97 79
8	6 16	48 36 96	88 67 76	128 98 56
9	6 93	49 37 73	89 68 53	129 99 33
10	7 70	50 38 50	90 69 30	130 100 10
11	8 47	51 39 27	91 70 07	131 100 87
12	9 24	52 40 04	92 70 84	132 101 64
13	10 01	53 40 81	93 71 61	133 102 41
14	10 78	54 41 58	94 72 38	134 103 18
15	11 55	55 42 35	95 73 15	135 103 95
16	12 32	56 43 12	96 73 92	136 104 72
17	13 09	57 43 89	97 74 69	137 105 49
18	13 86	58 44 66	98 75 46	138 106 26
19	14 63	59 45 43	99 76 23	139 107 03
20	15 40	60 46 20	100 77 00	140 107 80
21	16 17	61 46 97	101 77 77	141 108 57
22	16 94	62 47 74	102 78 54	142 109 34
23	17 71	63 48 51	103 79 31	143 110 11
24	18 48	64 49 28	104 80 08	144 110 88
25	19 25	65 50 05	105 80 85	145 111 65
26	20 02	66 50 82	106 81 62	146 112 42
27	20 79	67 51 59	107 82 39	147 113 19
28	21 56	68 52 36	108 83 16	148 113 96
29	22 33	69 53 13	109 83 93	149 114 73
30	23 10	70 53 90	110 84 70	150 115 50
31	23 87	71 54 67	111 85 47	151 116 27
32	24 64	72 55 44	112 86 24	152 117 04
33	25 41	73 56 21	113 87 01	153 117 81
34	26 18	74 56 98	114 87 78	154 118 58
35	26 95	75 57 75	115 88 55	155 119 35
36	27 72	76 58 52	116 89 32	156 120 12
37	28 49	77 59 29	117 90 09	157 120 89
38	29 26	78 60 06	118 90 86	158 121 66
39	30 03	79 60 83	119 91 63	159 122 43
40	30 80	80 61 60	120 92 40	160 123 20
				161 123 97
				162 124 74
				163 125 51
				164 126 28
				165 127 05
				166 127 82
				167 128 59
				168 129 36
				169 130 13
				170 130 90
				171 131 67
				172 132 44
				173 133 21
				174 133 98
				175 134 75
				176 135 52
				177 136 29
				178 137 06
				179 137 83
				180 138 60
				181 139 37
				182 140 14
				183 140 91
				184 141 68
				185 142 45
				186 143 22
				187 143 99
				188 144 76
				189 145 53
				190 146 30
				191 147 07
				192 147 84
				193 148 61
				194 149 39
				195 150 15
				196 150 92
				197 151 69
				198 152 46
				199 153 23
				200 154 00

# NO. 78.

N	N	N	N	N
1	0 78	41 31 98	81 33 18	121 94 38
2	1 50	42 32 76	82 33 96	122 95 16
3	2 34	43 33 54	83 34 74	123 95 94
4	3 12	44 34 32	84 35 52	124 96 72
5	3 90	45 35 10	85 36 30	125 97 50
6	4 68	46 35 88	86 37 08	126 98 28
7	5 46	47 36 66	87 37 86	127 99 06
8	6 24	48 37 44	88 38 64	128 99 84
9	7 02	49 38 22	89 39 42	129 100 62
10	7 80	50 39 00	90 40 20	130 101 40
11	8 58	51 39 78	91 40 98	131 102 18
12	9 36	52 40 56	92 41 76	132 102 96
13	10 14	53 41 34	93 42 54	133 103 74
14	10 92	54 42 12	94 43 32	134 104 52
15	11 70	55 42 90	95 44 10	135 105 30
16	12 48	56 43 68	96 44 88	136 106 08
17	13 26	57 44 46	97 45 66	137 106 86
18	14 04	58 45 24	98 46 44	138 107 64
19	14 82	59 46 02	99 47 22	139 108 42
20	15 60	60 46 80	100 48 00	140 109 20
21	16 38	61 47 58	101 48 78	141 109 98
22	17 16	62 48 36	102 49 56	142 110 76
23	17 94	63 49 14	103 50 34	143 111 54
24	18 72	64 49 92	104 51 12	144 112 32
25	19 50	65 50 70	105 51 90	145 113 10
26	20 28	66 51 48	106 52 68	146 113 88
27	21 06	67 52 26	107 53 46	147 114 66
28	21 84	68 53 04	108 54 24	148 115 44
29	22 62	69 53 82	109 55 02	149 116 22
30	23 40	70 54 60	110 55 80	150 117 00
31	24 18	71 55 38	111 56 58	151 117 78
32	24 96	72 56 16	112 57 36	152 118 56
33	25 74	73 56 94	113 58 14	153 119 34
34	26 52	74 57 72	114 58 92	154 120 12
35	27 30	75 58 50	115 59 70	155 120 90
36	28 08	76 59 28	116 60 48	156 121 68
37	28 86	77 60 06	117 61 26	157 122 46
38	29 64	78 60 84	118 62 04	158 123 24
39	30 42	79 61 62	119 62 82	159 124 02
40	31 20	80 62 40	120 63 60	160 124 80
				161 125 58
				162 126 36
				163 127 14
				164 127 92
				165 128 70
				166 129 48
				167 130 26
				168 131 04
				169 131 82
				170 132 60
				171 133 38
				172 134 16
				173 134 94
				174 135 72
				175 136 50
				176 137 28
				177 138 06
				178 138 84
				179 139 62
				180 140 40
				181 141 18
				182 141 96
				183 142 74
				184 143 52
				185 144 30
				186 145 08
				187 145 86
				188 146 64
				189 147 42
				190 148 20
				191 148 98
				192 149 76
				193 150 54
				194 151 32
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				199 155 22
				200 156 00
				201 156 78
				202 157 56
				203 158 34
				204 159 12
				205 159 90
				206 160 68
				207 161 46
				208 162 24
				209 163 02
				210 163 80
				211 164 58
				212 165 36
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				215 167 70
				216 168 48
				217 169 26
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				220 171 60
				221 172 38
				222 173 16
				223 173 94
				224 174 72
				225 175 50
				226 176 28
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				228 177 84
				229 178 62
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				237 184 86
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				245 191 10
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				249 194 22
				250 195 00
				251 195 78
				252 196 56
				253 197 34
				254 198 12
				255 198 90
				256 199 68
				257 200 46
				258 201 24
				259 202 02
				260 202 80
				261 203 58
				262 204 36
				263 205 14
				264 205 92
				265 206 70
				266 207 48
				267 208 26
				268 209 04
				269 209 82
				270 210 60
				271 211 38
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				297 232 66
				298 233 44
				299 234 22
				300 235 00
				301 235 78
				302 236 56
				303 237 34
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				305 238 90
				306 239 68
				307 240 46
				308 241 24
				309 242 02
				310 242 80
				311 243 58
				312 244 36
				313 245 14
				314 245 92
				315 246 70
				316 247 48
				317 248 26
				318 249 04
				319 249 82
				320 250 60
				321 251 38
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				336 264 08
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				339 266 42
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				342 268 76
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				345 271 10
				346 271 88
				347 272 66
				348 273 44
				349 274 22
				350 275 00
				351 275 78
				352 276 56
				353 277 34
				354 278 12
				355 278 90
				356 279 68
				357 280 46
				358 281 24
				359 282 02
				360 282 80
				361 283 58
				362 284 36
				363 285 14
				364 285 92
				365 286 70
				366 287 48
				367 288 26
				368 289 04
				369 289 82
				370 290 60
				371 291 38
				372 292 16
				373 292 94
				374 293 72
				375 294 50
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				377 296 06
				378 296 84
				379 297 62
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				384 302 52
				385 303 30
				386 304 08
				387 304 86
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				389 306 42
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				399 314 22
				400 315 00
				401 315 78
				402 316 56
				403 317 34
				404 318 12
				405 318 90
				406 319 68
				407 320 46
				408 321 24
				409 322 02
				410 322 80
				411 323 58
				412 324 36
				413 325 14
				414 325 92
				415 326 70
				416 327 48
				417 328 26
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				420 330 60
				421 331 38
				422 332 16
				423 332 94
				424 333 72
				425 334 50
				426 335 28
				427 336 06
				428 336 84
				429 337 62
				430 338 40
				431 339 18

# NO. 79.

N	N	N	N	N
1 0 79	41 32 39	81 63 99	121 95 59	161 127 19
2 1 58	42 33 18	82 64 78	122 96 38	162 127 98
3 2 37	43 33 97	83 65 57	123 97 17	163 128 77
4 3 16	44 34 76	84 66 36	124 97 96	164 129 56
5 3 95	45 35 55	85 67 15	125 98 75	165 130 35
6 4 74	46 36 34	86 67 94	126 99 54	166 131 14
7 5 53	47 37 13	87 68 73	127 100 33	167 131 93
8 6 32	48 37 92	88 69 52	128 101 12	168 132 72
9 7 11	49 38 71	89 70 31	129 101 91	169 133 51
10 7 90	50 39 50	90 71 10	130 102 70	170 134 30
11 8 69	51 40 29	91 71 89	131 103 49	171 135 09
12 9 48	52 41 08	92 72 68	132 104 28	172 135 88
13 10 27	53 41 87	93 73 47	133 105 07	173 136 67
14 11 06	54 42 66	94 74 26	134 105 86	174 137 46
15 11 85	55 43 45	95 75 05	135 106 65	175 138 25
16 12 64	56 44 24	96 75 84	136 107 44	176 139 04
17 13 43	57 45 03	97 76 63	137 108 23	177 139 83
18 14 22	58 45 82	98 77 42	138 109 02	178 140 62
19 15 01	59 46 61	99 78 21	139 109 81	179 141 41
20 15 80	60 47 40	100 79 00	140 110 60	180 142 20
21 16 59	61 48 19	101 79 79	141 111 39	181 142 99
22 17 38	62 48 98	102 80 58	142 112 18	182 143 78
23 18 17	63 49 77	103 31 37	143 112 97	183 144 57
24 18 96	64 50 56	104 32 16	144 113 76	184 145 36
25 19 75	65 51 35	105 32 95	145 114 55	185 146 15
26 20 54	66 52 14	106 33 74	146 115 34	186 146 94
27 21 33	67 52 93	107 34 53	147 116 13	187 147 73
28 22 12	68 53 72	108 35 32	148 116 92	188 148 52
29 22 91	69 54 51	109 35 11	149 117 71	189 149 31
30 23 70	70 55 30	110 35 90	150 118 50	190 150 10
31 24 49	71 56 09	111 37 69	151 119 29	191 150 89
32 25 28	72 56 88	112 38 48	152 120 08	192 151 68
33 26 07	73 57 67	113 39 27	153 120 87	193 152 47
34 26 86	74 58 46	114 40 06	154 121 66	194 153 26
35 27 65	75 59 25	115 40 85	155 122 45	195 154 05
36 28 44	76 60 04	116 41 64	156 123 24	196 154 84
37 29 23	77 60 83	117 42 43	157 124 03	197 155 63
38 30 02	78 61 62	118 43 22	158 124 82	198 156 42
39 30 81	79 62 41	119 44 01	159 125 61	199 157 21
40 31 60	80 63 20	120 44 80	160 126 40	200 158 00

# NO. 80.

N	N	N	N
0 80	41 32 80	81 64 80	121 96 80
1 60	42 33 60	82 65 60	122 97 60
2 40	43 34 40	83 66 40	123 98 40
3 20	44 35 20	84 67 20	124 99 20
4 00	45 36 00	85 68 00	125 100 00
4 80	46 36 80	86 68 80	126 100 80
5 60	47 37 60	87 69 60	127 101 60
6 40	48 38 40	88 70 40	128 102 40
7 20	49 39 20	89 71 20	129 103 20
8 00	50 40 00	90 72 00	130 104 00
8 80	51 40 80	91 72 80	131 104 80
9 60	52 41 60	92 73 60	132 105 60
10 40	53 42 40	93 74 40	133 106 40
11 20	54 43 20	94 75 20	134 107 20
12 00	55 44 00	95 76 00	135 108 00
12 80	56 44 80	96 76 80	136 108 80
13 60	57 45 60	97 77 60	137 109 60
14 40	58 46 40	98 78 40	138 110 40
15 20	59 47 20	99 79 20	139 111 20
16 00	60 48 00	100 80 00	140 112 00
16 80	61 48 80	101 80 80	141 112 80
17 60	62 49 60	102 81 60	142 113 60
18 40	63 50 40	103 82 40	143 114 40
19 20	64 51 20	104 83 20	144 115 20
20 00	65 52 00	105 84 00	145 116 00
20 80	66 52 80	106 84 80	146 116 80
21 60	67 53 60	107 85 60	147 117 60
22 40	68 54 40	108 86 40	148 118 40
23 20	69 55 20	109 87 20	149 119 20
24 00	70 56 00	110 88 00	150 120 00
24 80	71 56 80	111 88 80	151 120 80
25 60	72 57 60	112 89 60	152 121 60
26 40	73 58 40	113 90 40	153 122 40
27 20	74 59 20	114 91 20	154 123 20
28 00	75 60 00	115 92 00	155 124 00
28 80	76 60 80	116 92 80	156 124 80
29 60	77 61 60	117 93 60	157 125 60
30 40	78 62 40	118 94 40	158 126 40
31 20	79 63 20	119 95 20	159 127 20
32 00	80 64 00	120 96 00	160 128 00
			161 128 80
			162 129 60
			163 130 40
			164 131 20
			165 132 00
			166 132 80
			167 133 60
			168 134 40
			169 135 20
			170 136 00
			171 136 80
			172 137 60
			173 138 40
			174 139 20
			175 140 00
			176 140 80
			177 141 60
			178 142 40
			179 143 20
			180 144 00
			181 144 80
			182 145 60
			183 146 40
			184 147 20
			185 148 00
			186 148 80
			187 149 60
			188 150 40
			189 151 20
			190 152 00
			191 152 80
			192 153 60
			193 154 40
			194 155 20
			195 156 00
			196 156 80
			197 157 60
			198 158 40
			199 159 20
			200 160 00



# NO. 8F.

N N N N N

1	0	81	41	33	21	81	65	61	121	98	01	161	130	41
2	1	62	42	34	02	82	66	42	122	98	82	162	131	22
3	2	43	43	34	83	83	67	23	123	99	93	163	132	03
4	3	24	44	35	64	84	68	04	124	100	44	164	132	84
5	4	05	45	36	45	85	68	85	125	101	25	165	133	65
6	4	86	46	37	26	86	69	66	126	102	06	166	134	46
7	5	67	47	38	07	87	70	47	127	102	87	167	135	27
8	6	48	48	38	88	88	71	28	128	103	68	168	136	08
9	7	29	49	39	69	89	72	09	129	104	49	169	136	89
10	8	10	50	40	50	90	72	90	130	105	30	170	137	70
11	8	91	51	41	31	91	73	71	131	106	11	171	138	51
12	9	72	52	42	12	92	74	52	132	106	92	172	139	32
13	10	53	53	42	93	93	75	33	133	107	73	173	140	13
14	11	34	54	43	74	94	76	14	134	108	54	174	140	94
15	12	15	55	44	55	95	76	95	135	109	35	175	141	75
16	12	96	56	45	36	96	77	76	136	110	16	176	142	56
17	13	77	57	46	17	97	78	57	137	110	97	177	143	37
18	14	58	58	46	98	88	79	38	138	111	78	178	144	18
19	15	39	59	47	79	99	80	19	139	112	59	179	144	99
20	16	20	60	48	60	100	81	00	140	113	40	180	145	80
21	17	01	61	49	41	101	81	81	141	114	21	181	146	61
22	17	82	62	50	22	102	82	62	142	115	02	182	147	42
23	18	63	63	51	03	103	83	43	143	115	83	183	148	23
24	19	44	64	51	84	104	84	24	144	116	64	184	149	04
25	20	25	65	52	65	105	85	05	145	117	45	185	149	85
26	21	06	66	53	46	106	85	86	146	118	26	186	150	66
27	21	87	67	54	27	107	86	67	147	119	07	187	151	47
28	22	68	68	55	08	108	87	48	148	119	88	188	152	28
29	23	49	69	55	89	109	88	29	149	120	69	189	153	09
30	24	30	70	56	60	110	89	10	150	121	50	190	153	90
31	25	11	71	57	51	111	89	91	151	122	31	191	154	71
32	25	92	72	58	32	112	90	72	152	123	12	192	155	52
33	26	73	73	59	13	113	91	53	153	123	93	193	156	33
34	27	54	74	59	94	114	92	34	154	124	74	194	157	14
35	28	35	75	60	75	115	93	15	155	125	55	195	157	95
36	29	16	76	61	56	116	93	96	156	126	36	196	158	76
37	29	97	77	62	37	117	94	77	157	127	17	197	159	57
38	30	78	78	63	18	118	95	58	158	127	98	198	160	38
39	31	59	79	63	99	119	96	39	159	128	79	199	161	19
40	32	40	80	64	80	120	97	20	160	129	60	365	295	65



# NO. 82.

N N N N

0 82	41 33 62	81 66 42	121 99 22	161 132 02
1 64	42 34 44	82 67 24	122 100 04	162 132 84
2 46	43 35 26	83 68 06	123 109 86	163 133 66
3 28	44 36 08	84 68 88	124 104 68	164 134 48
4 10	45 36 90	85 69 70	125 102 30	165 135 30
4 92	46 37 72	86 70 52	126 103 32	166 136 12
5 74	47 38 54	87 71 34	127 104 14	167 136 94
6 56	48 39 36	88 72 16	128 104 96	168 137 76
7 38	49 40 18	89 72 98	129 105 78	169 138 58
8 20	50 41 00	90 73 80	130 106 60	170 139 40
9 02	51 41 82	91 74 62	131 107 42	171 140 22
9 84	52 42 64	92 75 44	132 108 24	172 141 04
10 66	53 43 46	93 76 26	133 109 06	173 141 86
11 48	54 44 28	94 77 08	134 109 88	174 142 68
12 30	55 45 10	95 77 90	135 110 70	175 143 50
13 12	56 46 92	96 78 72	136 111 52	176 144 32
13 94	57 46 74	97 79 54	137 112 34	177 145 14
14 76	58 47 56	98 80 36	138 113 16	178 145 96
15 58	59 48 38	99 81 18	139 113 98	179 146 78
16 40	60 49 20	100 82 00	140 114 80	180 147 60
17 22	61 50 02	101 82 42	141 115 62	181 148 42
2 18 04	62 50 84	102 83 64	142 116 44	182 149 24
3 18 86	63 51 66	103 84 46	143 117 26	183 150 06
4 19 68	64 52 48	104 85 28	144 118 08	184 150 88
5 20 50	65 53 30	105 86 10	145 118 90	185 151 70
6 21 32	66 54 12	106 86 92	146 119 62	186 152 52
7 22 14	67 54 94	107 87 74	147 120 54	187 153 34
8 22 96	68 55 76	108 88 56	148 121 36	188 154 16
9 23 78	69 56 58	109 89 38	149 122 18	189 154 98
0 24 60	70 57 40	110 90 20	150 123 00	190 155 80
1 25 42	71 58 22	111 91 02	151 123 42	191 156 62
2 26 24	72 59 04	112 91 84	152 124 64	192 157 44
3 27 06	73 59 86	113 92 66	153 125 46	193 158 26
4 27 88	74 60 68	114 93 48	154 126 28	194 159 08
5 28 70	75 61 50	115 94 30	155 127 10	195 159 90
6 29 52	76 62 32	116 95 12	156 127 92	196 160 72
7 30 34	77 63 14	117 95 94	157 128 84	197 161 54
8 31 16	78 63 96	118 96 76	158 129 46	198 162 36
9 31 98	79 64 78	119 97 58	159 130 38	199 163 18
0 32 80	80 65 60	120 98 40	160 131 20	200 164 00

N N N N N

1	0 83	41 34 05	81 67 23	121 100 43	161 133 63
2	1 66	42 34 86	82 68 06	122 101 26	162 134 46
3	2 49	43 35 69	83 68 89	123 102 09	163 135 29
4	3 32	44 36 52	84 69 72	124 102 92	164 136 12
5	4 15	45 37 35	85 70 55	125 103 75	165 136 95
6	4 98	46 38 18	86 71 38	126 104 58	166 137 78
7	5 81	47 39 01	87 72 21	127 105 41	167 138 61
8	6 64	48 39 84	88 73 04	128 106 24	168 139 44
9	7 47	49 40 67	89 73 87	129 107 07	169 140 27
10	8 30	50 41 50	90 74 70	130 107 90	170 141 10
11	9 13	51 42 33	91 75 53	131 108 73	171 141 93
12	9 96	52 43 16	92 76 36	132 109 56	172 142 76
13	10 79	53 43 99	93 77 19	133 110 39	173 143 59
14	11 62	54 44 82	94 78 02	134 111 22	174 144 42
15	12 45	55 45 65	95 78 85	135 112 05	175 145 25
16	13 28	56 46 48	96 79 68	136 112 88	176 146 08
17	14 11	57 47 31	97 80 51	137 113 71	177 146 91
18	14 94	58 48 14	98 81 34	138 114 54	178 147 74
19	15 77	59 48 97	99 82 17	139 115 37	179 148 57
20	16 60	60 49 80	100 83 00	140 116 20	180 149 40
21	17 43	61 50 63	101 83 83	141 117 03	181 150 23
22	18 26	62 51 46	102 84 66	142 117 86	182 151 06
23	19 09	63 52 29	103 85 49	143 118 69	183 151 89
24	19 92	64 53 12	104 86 32	144 119 52	184 152 72
25	20 75	65 53 95	105 87 15	145 120 35	185 153 55
26	21 58	66 54 78	106 87 98	146 121 18	186 154 38
27	22 41	67 55 61	107 88 81	147 122 01	187 155 21
28	23 24	68 56 44	108 89 64	148 122 84	188 156 04
29	24 07	69 57 27	109 90 47	149 123 67	189 156 87
30	24 90	70 58 10	110 91 30	150 124 50	190 157 70
31	25 73	71 58 93	111 92 13	151 125 33	191 158 53
32	26 56	72 59 76	112 92 96	152 126 16	192 159 36
33	27 39	73 60 59	113 93 79	153 126 99	193 160 19
34	28 22	74 61 42	114 94 62	154 127 82	194 161 02
35	29 05	75 62 25	115 95 45	155 128 65	195 161 85
36	29 88	76 63 08	116 96 28	156 129 48	196 162 68
37	30 71	77 63 91	117 97 11	157 130 31	197 163 51
38	31 54	78 64 74	118 97 94	158 131 14	198 164 34
39	32 37	79 65 57	119 98 77	159 131 97	199 165 17
40	33 20	80 66 40	120 99 60	160 132 80	200 166 00

# NO. 84.

N	N	N	N	N
1	0 84	41 34 44	81 68 04	121 101 64
2	1 68	42 35 28	82 68 88	122 102 48
3	2 52	43 36 12	83 69 72	123 103 32
4	2 36	44 36 96	84 70 56	124 104 16
5	4 20	45 37 80	85 71 40	125 105 00
6	5 04	46 38 64	86 72 24	126 105 84
7	5 88	47 39 48	87 73 08	127 106 68
8	6 72	48 40 32	88 73 92	128 107 52
9	7 56	49 41 16	89 74 76	129 108 36
10	8 40	50 42 00	90 75 60	130 109 20
11	9 24	51 42 84	91 76 44	131 110 04
12	10 08	52 43 68	92 77 28	132 110 88
13	10 92	53 44 52	93 78 12	133 111 72
14	11 76	54 45 36	94 78 96	134 112 56
15	12 60	55 46 20	95 79 80	135 113 40
16	13 44	56 47 04	96 80 64	136 114 24
17	14 28	57 47 88	97 81 48	137 115 08
18	15 12	58 48 72	98 82 32	138 115 92
19	15 96	59 49 56	99 83 16	139 116 76
20	16 80	60 50 40	100 84 00	140 117 60
21	17 64	61 51 24	101 84 84	141 118 44
22	18 48	62 52 08	102 85 68	142 119 28
23	19 32	63 52 92	103 86 52	143 120 12
24	20 16	64 53 76	104 87 36	144 120 96
25	21 00	65 54 60	105 88 20	145 121 80
26	21 84	66 55 44	106 89 04	146 122 64
27	22 68	67 56 28	107 89 88	147 123 48
28	23 52	68 57 12	108 90 72	148 124 32
29	24 36	69 57 96	109 91 56	149 125 16
30	25 20	70 58 80	110 92 40	150 126 00
31	26 04	71 59 64	111 93 24	151 126 84
32	26 88	72 60 48	112 94 08	152 127 68
33	27 72	73 61 32	113 94 92	153 128 52
34	28 56	74 62 16	114 95 76	154 129 36
35	29 40	75 63 00	115 96 60	155 130 20
36	30 24	76 63 84	116 97 44	156 131 04
37	31 08	77 64 68	117 98 28	157 131 88
38	31 92	78 65 52	118 99 12	158 132 72
39	32 76	79 66 36	119 99 96	159 133 56
40	33 60	80 67 20	120 100 80	160 134 40
				161 135 24
				162 136 08
				163 136 92
				164 137 76
				165 138 60
				166 139 44
				167 140 28
				168 141 12
				169 141 96
				170 142 80
				171 143 64
				172 144 48
				173 145 32
				174 146 16
				175 147 00
				176 147 84
				177 148 68
				178 149 52
				179 150 36
				180 151 20
				181 152 04
				182 152 88
				183 153 72
				184 154 56
				185 155 40
				186 156 24
				187 157 08
				188 157 92
				189 158 76
				190 159 60
				191 160 44
				192 161 28
				193 162 12
				194 162 96
				195 163 80
				196 164 64
				197 165 48
				198 166 32
				199 167 16
				200 168 00

# NO. 85.

N	N	N	N	N
1 0 85	41 34 8	81 68 85	121 102 85	161 136 8
2 1 70	42 35 7	82 69 70	122 103 70	162 137 7
3 2 55	43 36 5	83 70 55	123 104 55	163 138 5
4 3 40	44 37 4	84 71 40	124 105 40	164 139 4
5 4 25	45 38 2	85 72 25	125 106 25	165 140 2
6 5 10	46 39 1	86 73 10	126 107 10	166 141 0
7 5 95	47 39 9	87 73 95	127 107 95	167 141 8
8 6 80	48 40 8	88 74 80	128 108 80	168 142 7
9 7 65	49 41 6	89 75 65	129 109 65	169 143 5
10 8 50	50 42 5	90 76 50	130 110 50	170 144 3
11 9 35	51 43 3	91 77 35	131 111 35	171 145 3
12 10 20	52 44 2	92 78 20	132 112 20	172 146 2
13 11 05	53 45 0	93 79 05	133 113 05	173 147 0
14 11 90	54 45 9	94 79 90	134 113 90	174 147 9
15 12 75	55 46 7	95 80 75	135 114 75	175 148 7
16 13 60	56 47 6	96 81 60	136 115 60	176 149 6
17 14 45	57 48 4	97 82 45	137 116 45	177 150 4
18 15 30	58 49 3	98 83 30	138 117 30	178 151 3
19 16 15	59 50 1	99 84 15	139 118 15	179 152 1
20 17 00	60 51 0	100 85 00	140 119 00	180 153 0
21 17 85	61 51 8	101 85 85	141 119 85	181 153 8
22 18 70	62 52 7	102 86 70	142 120 70	182 154 7
23 19 55	63 53 5	103 87 55	143 121 55	183 155 5
24 20 40	64 54 4	104 88 40	144 122 40	184 156 4
25 21 25	65 55 2	105 89 25	145 123 25	185 157 2
26 22 10	66 56 1	106 90 10	146 124 10	186 158 1
27 22 95	67 56 9	107 90 95	147 124 95	187 158 9
28 23 80	68 57 8	108 91 80	148 125 80	188 159 8
29 24 65	69 58 6	109 92 65	149 126 65	189 160 6
30 25 50	70 59 5	110 93 50	150 127 50	190 161 5
31 26 35	71 60 3	111 94 35	151 128 35	191 162 3
32 27 20	72 61 2	112 95 20	152 129 20	192 163 2
33 28 05	73 62 0	113 96 05	153 130 05	193 164 0
34 28 90	74 62 9	114 96 90	154 130 90	194 164 9
35 29 75	75 63 7	115 97 75	155 131 75	195 165 7
36 30 60	76 64 6	116 98 60	156 132 60	196 166 6
37 31 45	77 65 4	117 99 45	157 133 45	197 167 4
38 32 30	78 66 3	118 100 30	158 134 30	198 168 3
39 33 15	79 67 1	119 101 15	159 135 15	199 169 1
40 34 00	80 68 0	120 102 00	160 136 00	365 310 2

# NO. 86.

N	N	N	N	N
1 0 86	41 35 26	81 69 66	121 104 06	161 138 46
2 1 72	42 36 12	82 70 52	122 104 92	162 139 32
3 2 58	43 36 98	83 71 38	123 105 78	163 140 18
4 3 44	44 37 84	84 72 24	124 106 64	164 141 04
5 4 30	45 38 70	85 73 10	125 107 50	165 141 90
6 5 16	46 39 56	86 73 96	126 108 36	166 142 76
7 6 02	47 40 42	87 74 82	127 109 22	167 143 62
8 6 88	48 41 28	88 75 68	128 110 08	168 144 48
9 7 74	49 42 14	89 76 54	129 110 94	169 145 34
10 8 60	50 43 00	90 77 40	130 111 80	170 146 20
11 9 46	51 43 86	91 78 26	131 112 66	171 147 06
12 10 32	52 44 72	92 79 12	132 113 52	172 147 92
13 11 18	53 45 58	93 79 98	133 114 38	173 148 78
14 12 04	54 46 44	94 80 84	134 115 24	174 149 64
15 12 90	55 47 30	95 81 70	135 116 10	175 150 50
16 13 76	56 48 16	96 82 56	136 116 96	176 151 36
17 14 62	57 49 02	97 83 42	137 117 82	177 152 22
18 15 48	58 49 88	98 84 28	138 118 68	178 153 08
19 16 34	59 50 74	99 85 14	139 119 54	179 153 94
20 17 20	60 51 60	100 86 00	140 120 40	180 154 80
21 18 06	61 52 46	101 86 86	141 121 26	181 155 66
22 18 92	62 53 32	102 87 72	142 122 12	182 156 52
23 19 78	63 54 18	103 88 58	143 122 98	183 157 38
24 20 64	64 55 04	104 89 44	144 123 84	184 158 24
25 21 50	65 55 90	105 90 30	145 124 70	185 159 10
26 22 36	66 56 76	106 91 16	146 125 56	186 159 96
27 23 22	67 57 62	107 92 02	147 126 42	187 160 82
28 24 08	68 58 48	108 92 88	148 127 28	188 161 68
29 24 94	69 59 34	109 93 74	149 128 14	189 162 54
30 25 80	70 60 20	110 94 60	150 129 00	190 163 40
31 26 66	71 61 06	111 95 46	151 129 86	191 164 26
32 27 52	72 61 92	112 96 32	152 130 72	192 165 12
33 28 38	73 62 78	113 97 18	153 131 58	193 165 98
34 29 24	74 63 64	114 98 04	154 132 44	194 166 84
35 30 10	75 64 50	115 98 90	155 133 30	195 167 70
36 30 96	76 65 36	116 99 76	156 134 16	196 168 56
37 31 82	77 66 22	117 100 62	157 135 02	197 169 42
38 32 68	78 67 08	118 101 48	158 135 88	198 170 28
39 33 54	79 67 94	119 102 34	159 136 74	199 171 14
40 34 40	80 68 80	120 103 20	160 137 60	200 171 90

# NO. 87.

N

N

N

N

N

1	0	87	11	33	67	81	70	47	121	105	27	161	140	07
2	1	74	12	36	54	82	71	34	122	106	14	162	140	94
3	2	61	13	37	41	83	72	21	123	107	01	163	141	81
4	3	48	14	38	28	84	73	08	124	107	88	164	142	68
5	4	35	15	39	15	85	73	95	125	108	75	165	143	55
6	5	22	16	40	02	86	74	82	126	109	62	166	144	42
7	6	09	17	40	89	87	75	69	127	110	49	167	145	29
8	6	96	18	41	76	88	76	56	128	111	36	168	146	16
9	7	83	19	42	63	89	77	43	129	112	23	169	147	03
10	8	70	20	43	50	90	78	30	130	113	10	170	147	90
11	9	57	21	44	37	91	79	17	131	113	97	171	148	77
12	10	44	22	45	24	92	80	04	132	114	84	172	149	64
13	11	31	23	46	11	93	80	91	133	115	71	173	150	51
14	12	18	24	46	98	94	81	78	134	116	58	174	151	38
15	13	05	25	47	85	95	82	65	135	117	45	175	152	25
16	13	92	26	48	72	96	83	52	136	118	32	176	153	12
17	14	79	27	49	59	97	84	39	137	119	19	177	153	99
18	15	66	28	50	46	98	85	26	138	120	06	178	154	86
19	16	53	29	51	33	99	86	13	139	120	93	179	155	73
20	17	40	30	52	20	100	87	00	140	121	80	180	156	60
21	18	27	31	53	07	101	87	87	141	122	67	181	157	47
22	19	14	32	53	94	102	88	74	142	123	54	182	158	34
23	20	01	33	54	81	103	89	61	143	124	41	183	159	21
24	20	88	34	55	68	104	90	48	144	125	28	184	160	08
25	21	75	35	56	55	105	91	35	145	126	15	185	160	95
26	22	62	36	57	42	106	92	22	146	127	02	186	161	82
27	23	49	37	58	29	107	93	09	147	127	89	187	162	69
28	24	36	38	59	16	108	93	96	148	128	76	188	163	56
29	25	23	39	60	03	109	94	83	149	129	63	189	164	43
30	26	10	40	60	90	110	95	70	150	130	50	190	165	30
31	26	97	41	61	77	111	96	57	151	131	37	191	166	17
32	27	84	42	62	64	112	97	44	152	132	24	192	167	04
33	28	71	43	63	51	113	98	31	153	133	11	193	167	91
34	29	58	44	64	38	114	99	18	154	133	98	194	168	78
35	30	45	45	65	25	115	100	05	155	134	85	195	169	65
36	31	32	46	66	12	116	100	92	156	135	72	196	170	52
37	32	19	47	66	99	117	101	79	157	136	59	197	171	39
38	33	06	48	67	86	118	102	66	158	137	46	198	172	26
39	33	93	49	68	73	119	103	53	159	138	33	199	173	13
40	34	80	50	69	60	120	104	40	160	139	20	200	174	00



# NO. 88.

N	N	N	N	N
1 0 88	41 36 08	81 71 28	121 106 48	161 141 08
2 1 76	42 36 96	82 72 16	122 107 36	162 142 56
3 2 64	43 37 84	83 73 04	123 108 24	163 143 44
4 3 52	44 38 72	84 73 92	124 109 12	164 144 32
5 4 40	45 39 60	85 74 80	125 110 00	165 145 20
6 5 28	46 40 48	86 75 68	126 110 88	166 146 08
7 6 16	47 41 36	87 76 56	127 111 76	167 146 96
8 7 04	48 42 24	88 77 44	128 112 64	168 147 84
9 7 92	49 43 12	89 78 32	129 113 52	169 148 72
10 8 80	50 44 00	90 79 20	130 114 40	170 149 60
11 9 68	51 44 88	91 80 08	131 115 28	171 150 48
12 10 56	52 45 76	92 80 96	132 116 16	172 151 36
13 11 44	53 46 64	93 81 84	133 117 04	173 152 24
14 12 32	54 47 52	94 82 72	134 117 92	174 153 12
15 13 20	55 48 40	95 83 60	135 118 80	175 154 00
16 14 08	56 49 28	96 84 48	136 119 68	176 154 88
17 14 96	57 50 16	97 85 36	137 120 56	177 155 76
18 15 84	58 51 04	98 86 24	138 121 44	178 156 64
19 16 72	59 51 92	99 87 12	139 122 32	179 157 52
20 17 60	50 52 80	100 88 00	140 123 20	180 158 40
21 18 48	51 53 68	101 88 88	141 124 08	181 159 28
22 19 36	62 54 56	102 89 76	142 124 96	182 160 16
23 20 24	63 55 44	103 90 64	143 125 84	183 161 04
24 21 12	64 56 32	104 91 52	144 126 72	184 161 92
25 22 00	65 57 20	105 92 40	145 127 60	185 162 80
26 22 88	66 58 08	106 93 28	146 128 48	186 163 68
27 23 76	67 58 96	107 94 16	147 129 36	187 164 56
28 24 64	68 59 84	108 95 04	148 130 24	188 165 44
29 25 52	69 60 72	109 95 92	149 131 12	189 166 32
30 26 40	70 61 60	110 96 80	150 132 00	190 167 20
31 27 28	71 62 48	111 97 68	151 132 88	191 168 08
32 28 16	72 63 36	112 98 56	152 133 76	192 168 96
33 29 04	73 64 24	113 99 44	153 134 64	193 169 84
34 29 92	74 65 12	114 100 32	154 135 52	194 170 72
35 30 80	75 66 00	115 101 20	155 136 40	195 171 60
36 31 68	76 66 88	116 102 08	156 137 28	196 172 48
37 32 56	77 67 76	117 102 96	157 138 16	197 173 36
38 33 44	78 68 64	118 103 84	158 139 04	198 174 24
39 34 32	79 69 52	119 104 72	159 139 92	199 175 12
40 35 20	80 70 40	120 105 60	160 140 80	200 176 00



# NO. 89.

N	N	N	N	N
1	0 89	41 36 49	81 72 09	121 107 69
2	1 78	42 37 38	82 72 98	122 108 58
3	2 67	43 38 27	83 73 87	123 109 47
4	3 56	44 39 16	84 74 76	124 110 36
5	4 45	45 40 05	85 75 65	125 111 25
6	5 34	46 40 94	86 76 54	126 112 14
7	6 23	47 41 83	87 77 43	127 113 03
8	7 12	48 42 72	88 78 32	128 113 92
9	8 01	49 43 61	89 79 21	129 114 81
10	8 90	50 44 50	90 80 10	130 115 70
11	9 79	51 45 39	91 80 99	131 116 59
12	10 68	52 46 28	92 81 88	132 117 48
13	11 57	53 47 17	93 82 77	133 118 37
14	12 46	54 48 06	94 83 66	134 119 26
15	13 35	55 48 95	95 84 55	135 120 15
16	14 24	56 49 84	96 85 44	136 121 04
17	15 13	57 50 73	97 86 33	137 121 93
18	16 02	58 51 62	98 87 22	138 122 82
19	16 91	59 52 51	99 88 11	139 123 71
20	17 80	60 53 40	100 89 00	140 124 60
21	18 69	61 54 29	101 89 59	141 125 49
22	19 58	62 55 18	102 90 78	142 126 38
23	20 47	63 56 07	103 91 67	143 127 27
24	21 36	64 56 96	104 92 56	144 128 16
25	22 25	65 57 85	105 93 45	145 129 05
26	23 14	66 58 74	106 94 34	146 129 94
27	24 03	67 59 63	107 95 23	147 130 83
28	24 92	68 60 52	108 96 12	148 131 72
29	25 81	69 61 41	109 97 01	149 132 61
30	26 70	70 62 30	110 97 90	150 133 50
31	27 59	71 63 19	111 98 79	151 134 39
32	28 48	72 64 08	112 99 68	152 135 28
33	29 37	73 64 97	113 100 57	153 136 17
34	30 26	74 65 86	114 101 46	154 137 06
35	31 15	75 66 75	115 102 35	155 137 95
36	32 04	76 67 64	116 103 24	156 138 84
37	32 93	77 68 53	117 104 13	157 139 73
38	33 82	78 69 42	118 105 02	158 140 62
39	34 71	79 70 31	119 105 91	159 141 51
40	35 60	80 71 20	120 106 80	160 142 40
				161 143 29
				162 144 18
				163 145 07
				164 145 96
				165 146 85
				166 147 74
				167 148 63
				168 149 52
				169 150 41
				170 151 30
				171 152 19
				172 153 08
				173 153 97
				174 154 86
				175 155 75
				176 156 64
				177 157 53
				178 158 42
				179 159 31
				180 160 20
				181 161 09
				182 161 98
				183 162 87
				184 163 76
				185 164 65
				186 165 54
				187 166 43
				188 167 32
				189 168 21
				190 169 10
				191 169 99
				192 170 88
				193 171 77
				194 172 66
				195 173 55
				196 174 44
				197 175 33
				198 176 22
				199 178 11
				200 180 00

# NO. 90.

N	N	N	N	N
1	0 90	41 36 90	81 72 90	121 108 90
2	1 80	42 37 80	82 73 80	122 109 80
3	2 70	43 38 70	83 74 70	123 110 70
4	3 60	44 39 60	84 75 60	124 111 60
5	4 50	45 40 50	85 76 50	125 112 50
6	5 40	46 41 40	86 77 40	126 113 40
7	6 30	47 42 30	87 78 30	127 114 30
8	7 20	48 43 20	88 79 20	128 115 20
9	8 10	49 44 10	89 80 10	129 116 10
10	9 00	50 45 00	90 81 00	130 117 00
11	9 90	51 45 90	91 81 90	131 117 90
12	10 80	52 46 80	92 82 80	132 118 80
13	11 70	53 47 70	93 83 70	133 119 70
14	12 60	54 48 60	94 84 60	134 120 60
15	13 50	55 49 50	95 85 50	135 121 50
16	14 40	56 50 40	96 86 40	136 122 40
17	15 30	57 51 30	97 87 30	137 123 30
18	16 20	58 52 20	98 88 20	138 124 20
19	17 10	59 53 10	99 89 10	139 125 10
20	18 00	60 54 00	100 90 00	140 126 00
21	18 90	61 54 90	101 90 90	141 126 90
22	19 80	62 55 80	102 91 80	142 127 80
23	20 70	63 56 70	103 92 70	143 128 70
24	21 60	64 57 60	104 93 60	144 129 60
25	22 50	65 58 50	105 94 50	145 130 50
26	23 40	66 59 40	106 95 40	146 131 40
27	24 30	67 60 30	107 96 30	147 132 30
28	25 20	68 61 20	108 97 20	148 133 20
29	26 10	69 62 10	109 98 10	149 134 10
30	27 00	70 63 00	110 99 00	150 135 00
31	27 90	71 63 90	111 99 90	151 135 90
32	28 80	72 64 80	112 100 80	152 136 80
33	29 70	73 65 70	113 101 70	153 137 70
34	30 60	74 66 60	114 102 60	154 138 60
35	31 50	75 67 50	115 103 50	155 139 50
36	32 40	76 68 40	116 104 40	156 140 40
37	33 30	77 69 30	117 105 30	157 141 30
38	34 20	78 70 20	118 106 20	158 142 20
39	35 10	79 71 10	119 107 10	159 143 10
40	36 00	80 72 00	120 108 00	160 144 00

N			N			N			N		
1	0	91	41	37	31	81	73	71	121	110	11
2	1	82	42	38	22	82	74	62	122	111	02
3	2	73	43	39	13	83	75	53	123	111	93
4	3	64	44	40	04	84	76	44	124	112	84
5	4	55	45	40	95	85	77	35	125	113	75
6	5	46	46	41	86	86	78	26	126	114	66
7	6	37	47	42	77	87	79	17	127	115	57
8	7	28	48	43	68	88	80	08	128	116	48
9	8	19	49	44	59	89	80	99	129	117	39
10	9	10	50	45	50	90	81	90	130	118	30
11	10	01	51	46	41	91	82	81	131	119	21
12	10	92	52	47	32	92	83	72	132	120	12
13	11	83	53	48	23	93	84	63	133	121	03
14	12	74	54	49	14	94	85	54	134	121	94
15	13	65	55	50	05	95	86	45	135	122	85
16	14	56	56	50	96	96	87	36	136	123	76
17	15	47	57	51	87	97	88	27	137	124	67
18	16	38	58	52	78	98	89	18	138	125	58
19	17	29	59	53	69	99	90	09	139	126	49
20	18	20	60	54	60	100	91	00	140	127	40
21	19	11	61	55	51	101	91	91	141	128	31
22	20	02	62	56	42	102	92	82	142	129	22
23	20	93	63	57	33	103	93	73	143	130	13
24	21	84	64	58	24	104	94	64	144	131	04
25	22	75	65	59	15	105	95	55	145	131	95
26	23	66	66	60	06	106	96	46	146	132	86
27	24	57	67	60	97	107	97	37	147	133	77
28	25	48	68	61	88	108	98	28	148	134	68
29	26	39	69	62	79	109	99	19	149	135	59
30	27	30	70	63	70	110	100	10	150	136	50
31	28	21	71	64	61	111	101	01	151	137	41
32	29	12	72	65	52	112	101	92	152	138	32
33	30	03	73	66	43	113	102	83	153	139	23
34	30	94	74	67	34	114	103	74	154	140	14
35	31	85	75	68	25	115	104	65	155	141	05
36	32	76	76	69	16	116	105	56	156	141	96
37	33	67	77	70	07	117	106	47	157	142	87
38	34	58	78	70	98	118	107	38	158	143	78
39	35	49	79	71	89	119	108	29	159	144	69
40	36	40	80	72	80	120	109	20	160	145	60
									365	332	15



N	N	N	N	N
1	0 92	41 37 72	81 74 52	121 111 32
2	1 84	42 38 64	82 75 44	122 112 24
3	2 76	43 39 56	83 76 36	123 113 16
4	3 68	44 40 48	84 77 28	124 114 08
5	4 60	45 41 40	85 78 20	125 115 00
6	5 52	46 42 32	86 79 12	126 115 92
7	6 44	47 43 24	87 80 04	127 116 84
8	7 36	48 44 16	88 80 96	128 117 76
9	8 28	49 45 08	89 81 88	129 118 68
10	9 20	50 46 00	90 82 80	130 119 60
11	10 12	51 46 92	91 83 72	131 120 52
12	11 04	52 47 84	92 84 64	132 121 44
13	11 96	53 48 76	93 85 56	133 122 36
14	12 88	54 49 68	94 86 48	134 123 28
15	13 80	55 50 60	95 87 40	135 124 20
16	14 72	56 51 52	96 88 32	136 125 12
17	15 64	57 52 44	97 89 24	137 126 04
18	16 56	58 53 36	98 90 16	138 126 96
19	17 48	59 54 28	99 91 08	139 127 88
20	18 40	60 55 20	100 92 00	140 128 80
21	19 32	61 56 12	101 92 92	141 129 72
22	20 24	62 57 04	102 93 84	142 130 64
23	21 16	63 57 96	103 94 76	143 131 56
24	22 08	64 58 88	104 95 68	144 132 48
25	23 00	65 59 80	105 96 60	145 133 40
26	23 92	66 60 72	106 97 52	146 134 32
27	24 84	67 61 64	107 98 44	147 135 24
28	25 76	68 62 56	108 99 36	148 136 16
29	26 68	69 63 48	109 100 28	149 137 08
30	27 60	70 64 40	110 101 20	150 138 00
31	28 52	71 65 32	111 102 12	151 138 92
32	29 44	72 66 24	112 103 04	152 139 84
33	30 36	73 67 16	113 103 96	153 140 76
34	31 28	74 68 08	114 104 88	154 141 68
35	32 20	75 69 00	115 105 80	155 142 60
36	33 12	76 69 92	116 106 72	156 143 52
37	34 04	77 70 84	117 107 64	157 144 44
38	34 96	78 71 76	118 108 56	158 145 36
39	35 88	79 72 68	119 109 48	159 145 28
40	36 80	80 73 60	120 110 40	160 147 20
				365 335 80

N	N	N	N	N
1	0 93	41 38 13	81 75 33	121 112 53
2	1 86	42 39 06	82 76 26	122 113 46
3	2 79	43 39 99	83 77 19	123 114 39
4	3 72	44 40 92	84 78 12	124 115 32
5	4 65	45 41 85	85 79 05	125 116 25
6	5 58	46 42 78	86 79 98	126 117 18
7	6 51	47 43 71	87 80 91	127 118 11
8	7 44	48 44 64	88 81 84	128 119 04
9	8 37	49 45 57	89 82 77	129 119 97
10	9 30	50 46 50	90 83 70	130 120 90
11	10 23	51 47 43	91 84 63	131 121 83
12	11 16	52 48 36	92 85 56	132 122 76
13	12 09	53 49 29	93 86 49	133 123 69
14	13 02	54 50 22	94 87 42	134 124 62
15	13 95	55 51 15	95 88 35	135 125 55
16	14 88	56 52 08	96 89 28	136 126 48
17	15 81	57 53 01	97 90 21	137 127 41
18	16 74	58 53 94	98 91 14	138 128 34
19	17 67	59 54 87	99 92 07	139 129 27
20	18 60	60 55 80	100 93 00	140 130 20
21	19 53	61 56 73	101 93 93	141 131 13
22	20 46	62 57 66	102 94 86	142 132 06
23	21 39	63 58 59	103 95 79	143 132 99
24	22 32	64 59 52	104 96 72	144 133 92
25	23 25	65 60 45	105 97 65	145 134 85
26	24 18	66 61 38	106 98 58	146 135 78
27	25 11	67 62 31	107 99 51	147 136 71
28	26 04	68 63 24	108 100 44	148 137 64
29	26 97	69 64 17	109 101 37	149 138 57
30	27 90	70 65 10	110 102 30	150 139 50
31	28 83	71 66 03	111 103 23	151 140 43
32	29 76	72 66 96	112 104 16	152 141 36
33	30 69	73 67 89	113 105 09	153 142 29
34	31 62	74 68 82	114 106 02	154 143 22
35	32 55	75 69 75	115 106 95	155 144 15
36	33 48	76 70 68	116 107 88	156 145 08
37	34 41	77 71 61	117 108 81	157 146 01
38	35 34	78 72 54	118 109 74	158 146 94
39	36 27	79 73 47	119 110 67	159 147 87
40	37 20	80 74 40	120 111 60	160 148 80
				161 149 73
				162 150 66
				163 151 59
				164 152 52
				165 153 45
				166 154 38
				167 155 31
				168 156 24
				169 157 17
				170 158 10
				171 159 03
				172 159 96
				173 160 89
				174 161 82
				175 162 75
				176 163 68
				177 164 61
				178 165 54
				179 166 47
				180 167 40
				181 168 33
				182 169 26
				183 170 19
				184 171 12
				185 172 05
				186 172 98
				187 173 91
				188 174 84
				189 175 77
				190 176 70
				191 177 63
				192 178 56
				193 179 49
				194 180 42
				195 181 35
				196 182 28
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				199 185 07
				200 186 00

# NO. 94.

N

N

N

N

N

1	0	94	41	38	54	81	76	14	121	113	74	161	151	34
2	1	88	42	39	48	82	77	08	122	114	68	162	152	28
3	2	82	43	40	42	83	78	02	123	115	62	163	153	22
4	3	76	44	41	36	84	78	96	124	116	56	164	154	16
5	4	70	45	42	30	85	79	90	125	117	50	165	155	10
6	5	64	46	43	24	86	80	84	126	118	44	166	156	04
7	6	58	47	44	18	87	81	78	127	119	38	167	156	98
8	7	52	48	45	12	88	82	72	128	120	32	168	157	92
9	8	46	49	46	06	89	83	66	129	121	26	169	158	86
10	9	40	50	47	00	90	84	60	130	122	20	170	159	80
11	10	34	51	47	94	91	85	54	131	123	14	171	160	74
12	11	28	52	48	88	92	86	48	132	124	08	172	161	68
13	12	22	53	49	82	93	87	42	133	125	02	173	162	62
14	13	16	54	50	76	94	88	36	134	125	96	174	163	56
15	14	10	55	51	70	95	89	30	135	126	90	175	164	50
16	15	04	56	52	64	96	90	24	136	127	84	176	165	44
17	15	98	57	53	58	97	91	18	137	128	78	177	166	38
18	16	92	58	54	52	98	92	12	138	129	72	178	167	32
19	17	86	59	55	46	99	93	06	139	130	66	179	168	26
20	18	80	60	56	40	100	94	00	140	131	60	180	169	20
21	19	74	61	57	34	101	94	94	141	132	54	181	170	14
22	20	68	62	58	28	102	95	88	142	133	48	182	171	08
23	21	62	63	59	22	103	96	82	143	134	42	183	172	02
24	22	56	64	60	16	104	97	76	144	135	36	184	172	96
25	23	50	65	61	10	105	98	70	145	136	30	185	173	90
26	24	44	66	62	04	106	99	64	146	137	24	186	174	84
27	25	38	67	62	98	107	100	58	147	138	18	187	175	78
28	26	32	68	63	92	108	101	52	148	139	12	188	176	72
29	27	26	69	64	86	109	102	46	149	140	06	189	177	66
30	28	20	70	65	80	110	103	40	150	141	00	190	178	60
31	29	14	71	66	74	111	104	34	151	141	94	191	179	54
32	30	08	72	67	68	112	105	28	152	142	88	192	180	48
33	31	02	73	68	62	113	106	22	153	143	82	193	181	42
34	31	96	74	69	56	114	107	16	154	144	76	194	182	36
35	32	90	75	70	50	115	108	10	155	145	70	195	183	30
36	33	84	76	71	44	116	109	04	156	146	64	196	184	24
37	34	78	77	72	38	117	109	98	157	147	58	197	185	18
38	35	72	78	73	32	118	110	92	158	148	52	198	186	12
39	36	66	79	74	26	119	111	86	159	149	46	199	187	06
40	37	60	80	75	20	120	112	80	160	150	40	200	188	00

# NO. 95.

N N N N N

1	0 95	41	38 95	81	78 95	121	114 95	161	152 95
2	1 90	42	39 90	82	77 90	122	115 90	162	153 90
3	2 85	43	40 85	83	78 85	123	116 85	163	154 85
4	3 80	44	41 80	84	79 80	124	117 80	164	155 80
5	4 75	45	42 75	85	80 75	125	118 75	165	156 75
6	5 70	46	43 70	86	81 70	126	119 70	166	157 70
7	6 65	47	44 65	87	82 65	127	120 65	167	158 65
8	7 60	48	45 60	88	83 60	128	121 60	168	159 60
9	8 55	49	46 55	89	84 55	129	122 55	169	160 55
10	9 50	50	47 50	90	85 50	130	123 50	170	161 50
11	10 45	51	48 45	91	86 45	131	124 45	171	162 45
12	11 40	52	49 40	92	87 40	132	125 40	172	163 40
13	12 35	53	50 35	93	88 35	133	126 35	173	164 35
14	13 30	54	51 30	94	89 30	134	127 30	174	165 30
15	14 25	55	52 25	95	90 25	135	128 25	175	166 25
16	15 20	56	53 20	96	91 20	136	129 20	176	167 20
17	16 15	57	54 15	97	92 15	137	130 15	177	168 15
18	17 10	58	55 10	98	93 10	138	131 10	178	169 10
19	18 05	59	56 05	99	94 05	139	132 05	179	170 05
20	19 00	60	57 00	100	95 00	140	133 00	180	171 00
21	19 95	61	57 95	101	95 95	141	133 95	181	171 95
22	20 90	62	58 90	102	96 90	142	134 90	182	172 90
23	21 85	63	59 85	103	97 85	143	135 85	183	173 85
24	22 80	64	60 80	104	98 80	144	136 80	184	174 80
25	23 75	65	61 75	105	99 75	145	137 75	185	175 75
26	24 70	66	62 70	106	100 70	146	138 70	186	176 70
27	25 65	67	63 65	107	101 65	147	139 65	187	177 65
28	26 60	68	64 60	108	102 60	148	140 60	188	178 60
29	27 55	69	65 55	109	103 55	149	141 55	189	179 55
30	28 50	70	66 50	110	104 50	150	142 50	190	180 50
31	29 45	71	67 45	111	105 45	151	143 45	191	181 45
32	30 40	72	68 40	112	106 40	152	144 40	192	182 40
33	31 35	73	69 35	113	107 35	153	145 35	193	183 35
34	32 30	74	70 30	114	108 30	154	146 30	194	184 30
35	33 25	75	71 25	115	109 25	155	147 25	195	185 25
36	34 20	76	72 20	116	110 20	156	148 20	196	186 20
37	35 15	77	73 15	117	111 15	157	149 15	197	187 15
38	36 10	78	74 10	118	112 10	158	150 10	198	188 10
39	37 05	79	75 05	119	113 05	159	151 05	199	189 05
40	38 00	80	76 00	120	114 00	160	152 00	200	190 00



N	N	N	N	N	N	N
1	0 96	41 39 36	81 77 76	121 116 16	161 154 56	
2	1 92	42 40 32	82 78 72	122 117 12	162 155 52	
3	2 88	43 41 28	83 79 68	123 118 08	163 156 48	
4	3 84	44 42 24	84 80 64	124 119 04	164 157 44	
5	4 80	45 43 20	85 81 60	125 120 00	165 158 40	
6	5 76	46 44 16	86 82 56	126 120 96	166 159 36	
7	6 72	47 45 12	87 83 52	127 121 92	167 160 32	
8	7 68	48 46 08	88 84 48	128 122 88	168 161 28	
9	8 64	49 47 04	89 85 44	129 123 84	169 162 24	
10	9 60	50 48 00	90 86 40	130 124 80	170 163 20	
11	10 56	51 48 96	91 87 36	131 125 76	171 164 16	
12	11 52	52 49 92	92 88 32	132 126 72	172 165 12	
13	12 48	53 50 88	93 89 28	133 127 68	173 166 08	
14	13 44	54 51 84	94 90 24	134 128 64	174 167 04	
15	14 40	55 52 80	95 91 20	135 129 60	175 168 00	
16	15 36	56 53 76	96 92 16	136 130 56	176 168 96	
17	16 32	57 54 72	97 93 12	137 131 52	177 169 92	
18	17 28	58 55 68	98 94 08	138 132 48	178 170 88	
19	18 24	59 56 64	99 95 04	139 133 44	179 171 84	
20	19 20	60 57 60	100 96 00	140 134 40	180 172 80	
21	20 16	61 58 56	101 96 96	141 135 36	181 173 76	
22	21 12	62 59 52	102 97 92	142 136 32	182 174 72	
23	22 08	63 60 48	103 98 88	143 137 28	183 175 68	
24	23 04	64 61 44	104 99 84	144 138 24	184 176 64	
25	24 00	65 62 40	105 100 80	145 139 20	185 177 60	
26	24 96	66 63 36	106 101 76	146 140 16	186 178 56	
27	25 92	67 64 32	107 102 72	147 141 12	187 179 52	
28	26 88	68 65 28	108 103 68	148 142 08	188 180 48	
29	27 84	69 66 24	109 104 64	149 143 04	189 181 44	
30	28 80	70 67 20	110 105 60	150 144 00	190 182 40	
31	29 76	71 68 16	111 106 56	151 144 96	191 183 36	
32	30 72	72 69 12	112 107 52	152 145 92	192 184 32	
33	31 68	73 70 08	113 108 48	153 146 88	193 185 28	
34	32 64	74 71 04	114 109 44	154 147 84	194 186 24	
35	33 60	75 72 00	115 110 40	155 148 80	195 187 20	
36	34 56	76 72 96	116 111 36	156 149 76	196 188 16	
37	35 52	77 73 92	117 112 32	157 150 72	197 189 12	
38	36 48	78 74 88	118 113 28	158 151 68	198 189 08	
39	37 44	79 75 84	119 114 24	159 152 64	199 190 04	
40	38 40	80 76 80	120 115 20	160 153 60	365 350 40	

# NO. 97.

N	N	N	N	N
1	0 97	11 39 77	81 78 57	121 117 37
2	1 94	12 40 74	82 79 54	122 118 34
3	2 91	13 41 71	83 80 51	123 119 31
4	3 88	14 42 68	84 81 48	124 120 28
5	4 85	15 43 65	85 82 45	125 121 25
6	5 82	16 44 62	86 83 42	126 122 22
7	6 79	17 45 59	87 84 39	127 123 19
8	7 76	18 46 56	88 85 36	128 124 16
9	8 73	19 47 53	89 86 33	129 125 13
10	9 70	20 48 50	90 87 30	130 126 10
11	10 67	21 49 47	91 88 27	131 127 07
12	11 64	22 50 44	92 89 24	132 128 04
13	12 61	23 51 41	93 90 21	133 129 01
14	13 58	24 52 38	94 91 18	134 129 98
15	14 55	25 53 35	95 92 15	135 130 95
16	15 52	26 54 32	96 93 12	136 131 92
17	16 49	27 55 29	97 94 09	137 132 89
18	17 46	28 56 26	98 95 06	138 133 86
19	18 43	29 57 23	99 96 03	139 134 83
20	19 40	30 58 20	100 97 00	140 135 80
21	20 37	31 59 17	101 97 97	141 136 77
22	21 34	32 60 14	102 98 94	142 137 74
23	22 31	33 61 11	103 99 91	143 138 71
24	23 28	34 62 08	104 100 88	144 139 68
25	24 25	35 63 05	105 101 85	145 140 65
26	25 22	36 64 02	106 102 82	146 141 62
27	26 19	37 64 99	107 103 79	147 142 59
28	27 16	38 65 96	108 104 76	148 143 56
29	28 13	39 66 93	109 105 73	149 144 53
30	29 10	40 67 90	110 106 70	150 145 50
31	30 07	41 68 87	111 107 67	151 146 47
32	31 04	42 69 84	112 108 64	152 147 44
33	32 01	43 70 81	113 109 61	153 148 41
34	32 98	44 71 78	114 110 58	154 149 38
35	33 95	45 72 75	115 111 55	155 150 35
36	34 02	46 73 72	116 112 52	156 151 32
37	35 89	47 74 69	117 113 49	157 152 29
38	36 86	48 75 66	118 114 46	158 153 26
39	37 83	49 76 63	119 115 43	159 154 23
40	38 80	50 77 60	120 116 40	160 155 20
				161 156 17
				162 157 14
				163 158 11
				164 159 08
				165 160 05
				166 161 02
				167 161 99
				168 162 96
				169 163 93
				170 164 90
				171 165 87
				172 166 84
				173 167 81
				174 168 78
				175 169 75
				176 170 72
				177 171 69
				178 172 66
				179 173 63
				180 174 60
				181 175 57
				182 176 54
				183 177 51
				184 178 48
				185 179 45
				186 180 42
				187 181 39
				188 182 36
				189 183 33
				190 184 30
				191 185 27
				192 186 24
				193 187 21
				194 188 18
				195 189 15
				196 190 12
				197 191 09
				198 192 06
				199 193 03
				200 194 00

# NO. 98.

N	N	N	N	N
1 0 98	41 40 18	81 79 38	121 118 58	161 157 78
2 1 96	42 41 16	82 80 36	122 119 56	162 158 76
3 2 94	43 42 14	83 81 34	123 120 54	163 159 74
4 3 92	44 43 12	84 82 32	124 121 52	164 160 72
5 4 90	45 44 10	85 83 30	125 122 50	165 161 70
6 5 88	46 45 08	86 84 28	126 123 48	166 162 68
7 6 86	47 46 06	87 85 26	127 124 46	167 163 66
8 7 84	48 47 04	88 86 24	128 125 44	168 164 64
9 8 82	49 48 02	89 87 22	129 126 42	169 165 62
10 9 80	50 49 00	90 88 20	130 127 40	170 166 60
11 10 78	51 49 98	91 89 18	131 128 38	171 167 58
12 11 76	52 50 96	92 90 16	132 129 36	172 168 56
13 12 74	53 51 94	93 91 14	133 130 34	173 169 54
14 13 72	54 52 92	94 92 12	134 131 32	174 170 52
15 14 70	55 53 90	95 93 10	135 132 30	175 171 50
16 15 68	56 54 88	96 94 08	136 133 28	176 172 48
17 16 66	57 55 86	97 95 06	137 134 26	177 173 46
18 17 64	58 56 84	98 96 04	138 135 24	178 174 44
19 18 62	59 57 82	99 97 02	139 136 22	179 175 42
20 19 60	60 58 80	100 98 00	140 137 20	180 176 40
21 20 58	61 59 78	101 98 98	141 138 18	181 177 38
22 21 56	62 60 76	102 99 96	142 139 16	182 178 36
23 22 54	63 61 74	103 100 94	143 140 14	183 179 34
24 23 52	64 62 72	104 101 92	144 141 12	184 180 32
25 24 50	65 63 70	105 102 90	145 142 10	185 181 30
26 25 48	66 64 68	106 103 88	146 143 08	186 182 28
27 26 46	67 65 66	107 104 86	147 144 06	187 183 26
28 27 44	68 66 64	108 105 84	148 145 04	188 184 24
29 28 42	69 67 62	109 106 82	149 146 02	189 185 22
30 29 40	70 68 60	110 107 80	150 147 00	190 186 20
31 30 38	71 69 58	111 108 78	151 147 98	191 187 18
32 31 36	72 70 56	112 109 76	152 148 96	192 188 16
33 32 34	73 71 54	113 110 74	153 149 94	193 189 14
34 33 32	74 72 52	114 111 72	154 150 92	194 190 12
35 34 30	75 73 50	115 112 70	155 151 90	195 191 10
36 35 28	76 74 48	116 113 68	156 152 88	196 192 08
37 36 26	77 75 46	117 114 66	157 153 86	197 193 06
38 37 24	78 76 44	118 115 64	158 154 84	198 194 04
39 38 22	79 77 42	119 116 62	159 155 82	199 195 02
40 39 20	80 78 40	120 117 60	160 156 80	365 357 70

# NO. 99.

N

N

N

N

N

1	0	99	41	40	59	81	80	19	121	119	79	161	159	39
2	1	98	42	41	58	82	81	18	122	120	78	162	160	38
3	2	97	43	42	57	83	82	17	123	121	77	163	161	37
4	3	96	44	43	56	84	83	16	124	122	76	164	162	36
5	4	95	45	44	55	85	84	15	125	123	75	165	163	35
6	5	94	46	45	54	86	85	14	126	124	74	166	164	34
7	6	93	47	46	53	87	86	13	127	125	73	167	165	33
8	7	92	48	47	52	88	87	12	128	126	72	168	166	32
9	8	91	49	48	51	89	88	11	129	127	71	169	167	31
10	9	90	50	49	50	90	89	10	130	128	70	170	168	30
11	10	89	51	50	49	91	90	09	131	129	69	171	169	29
12	11	88	52	51	48	92	91	08	132	130	68	172	170	28
13	12	87	53	52	47	93	92	07	133	131	67	173	171	27
14	13	86	54	53	46	94	93	06	134	132	66	174	172	26
15	14	85	55	54	45	95	94	05	135	133	65	175	173	25
16	15	84	56	55	44	96	95	04	136	134	64	176	174	24
17	16	83	57	56	43	97	96	03	137	135	63	177	175	23
18	17	82	58	57	42	98	97	02	138	136	62	178	176	22
19	18	81	59	58	41	99	98	01	139	137	61	179	177	21
20	19	80	60	59	40	100	99	00	140	138	60	180	178	20
21	20	79	61	60	39	101	99	99	141	139	59	181	179	19
22	21	78	62	61	38	102	100	98	142	140	58	182	180	18
23	22	77	63	62	37	103	101	97	143	141	57	183	181	17
24	23	76	64	63	36	104	102	96	144	142	56	184	182	16
25	24	75	65	64	35	105	103	95	145	143	55	185	183	15
26	25	74	66	65	34	106	104	94	146	144	54	186	184	14
27	26	73	67	66	33	107	105	93	147	145	53	187	185	13
28	27	72	68	67	32	108	106	92	148	146	52	188	186	12
29	28	71	69	68	31	109	107	91	149	147	51	189	187	11
30	29	70	70	69	30	110	108	90	150	148	50	190	188	10
31	30	69	71	70	29	111	109	89	151	149	49	191	189	09
32	31	68	72	71	28	112	110	88	152	150	48	192	190	08
33	32	67	73	72	27	113	111	87	153	151	47	193	191	07
34	33	66	74	73	26	114	112	86	154	152	46	194	192	06
35	34	65	75	74	25	115	113	85	155	153	45	195	193	05
36	35	64	76	75	24	116	114	84	156	154	44	196	194	04
37	36	63	77	76	23	117	115	83	157	155	43	197	195	03
38	37	62	78	77	22	118	116	82	158	156	42	198	196	02
39	38	61	79	78	21	119	117	81	159	157	41	199	197	01
40	39	60	80	79	20	120	118	80	160	158	40	365	361	35

# TABLES

OF

## SIMPLE INTEREST,

*Calculated to the nearest Mill. Shewing the interest of any sum from 1 dollar to 100, at 4, 5, 6, and 7 per cent. per annum, from one day to one year.*

*Note.*—When a sum is not immediately in the table, take any two numbers that will make the sum required.

Day.	4 per cent.	5 per cent.	6 per cent.	7 per cent.
Prin.	\$ C. M.	\$ C. M.	\$ C. M.	\$ C. M.
\$ 1	0 0 0	0 0 0	0 0 0	0 0 0
2	0 0 0	0 0 0	0 0 0	0 0 0
3	0 0 0	0 0 0	0 0 0	0 0 0
4	0 0 0	0 0 0	0 0 0	0 0 0
5	0 0 0	0 0 0	0 0 0	0 0 0
6	0 0 0	0 0 0	0 0 1	0 0 1
7	0 0 0	0 0 0	0 0 1	0 0 1
8	0 0 0	0 0 1	0 0 1	0 0 1
9	0 0 1	0 0 1	0 0 2	0 0 2
10	0 0 1	0 0 1	0 0 2	0 0 2
20	0 0 2	0 0 3	0 0 3	0 0 4
30	0 0 3	0 0 4	0 0 5	0 0 6
40	0 0 4	0 0 6	0 0 6	0 0 8
50	0 0 5	0 0 7	0 0 8	0 1 0
100	0 1 1	0 1 4	0 1 6	0 1 9
200	0 2 2	0 2 8	0 3 3	0 3 8
300	0 3 2	0 4 1	0 4 9	0 5 7
400	0 4 3	0 5 4	0 6 5	0 7 6
500	0 5 5	0 6 9	0 8 2	0 9 6
1000	0 11 0	0 13 7	0 16 4	0 19 2

# SIMPLE INTEREST.

14

Days.	4 per cent.			5 per cent.			6 per cent.			7 per cent.		
Prin.	\$	C.	M.	\$	C.	M.	\$	C.	M.	\$	C.	M.
\$ 1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	1	0	0	1	0	0	1
5	0	0	1	0	0	1	0	0	1	0	0	1
6	0	0	1	0	0	1	0	0	2	0	0	2
7	0	0	1	0	0	1	0	0	2	0	0	2
8	0	0	1	0	0	2	0	0	2	0	0	3
9	0	0	2	0	0	2	0	0	2	0	0	3
10	0	0	2	0	0	3	0	0	3	0	0	3
20	0	0	4	0	0	5	0	0	6	0	0	7
30	0	0	6	0	0	8	0	0	9	0	0	1
40	0	0	8	0	0	1	0	1	3	0	0	5
50	0	1	1	0	1	3	0	1	6	0	1	9
100	0	2	2	0	2	7	0	2	3	0	3	8
200	0	4	4	0	5	5	0	6	6	0	7	6
300	0	6	5	0	8	2	0	9	8	0	11	5
400	0	8	7	0	10	9	0	13	1	0	15	3
500	0	10	9	0	13	7	0	16	4	0	19	2
1000	0	21	9	0	27	4	0	32	9	0	38	4

3 Days.

\$ 1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	1	0	0	1	0	0	1
3	0	0	1	0	0	1	0	0	1	0	0	1
4	0	0	1	0	0	1	0	0	2	0	0	2
5	0	0	1	0	0	2	0	0	2	0	0	3
6	0	0	2	0	0	2	0	0	3	0	0	3
7	0	0	2	0	0	2	0	0	3	0	0	4
8	0	0	2	0	0	3	0	0	4	0	0	4
9	0	0	3	0	0	3	0	0	4	0	0	5
10	0	0	3	0	0	4	0	0	5	0	0	6
20	0	0	6	0	0	8	0	1	10	0	1	1
30	0	1	0	0	1	2	0	1	7	0	1	7
40	0	1	3	0	1	5	0	2	0	0	2	3
50	0	1	6	0	2	0	0	2	4	0	2	8
100	0	3	3	0	4	1	0	4	9	0	5	7
200	0	6	6	0	8	2	0	9	8	0	11	5
300	0	9	8	0	12	3	0	13	4	0	17	2
400	0	13	1	0	16	4	0	19	2	0	23	0
500	0	16	4	0	20	5	0	24	1	0	28	7
1000	0	32	9	0	41	1	0	49	3	0	57	3

## SIMPLE INTEREST.

4 Days.	4 per cent.	5 per cent.	6 per cent.	7 per cent.
Prin.	\$ C. M.	\$ C. M.	\$ C. M.	\$ C. M.
\$ 1	0 0 0	0 0 0	0 0 0	0 0 0
2	0 0 0	0 0 1	0 0 1	0 0 2
3	0 0 1	0 0 1	0 0 2	0 0 2
4	0 0 1	0 0 2	0 0 3	0 0 3
5	0 0 2	0 0 2	0 0 3	0 0 4
6	0 0 2	0 0 3	0 0 4	0 0 5
7	0 0 3	0 0 3	0 0 5	0 0 5
8	0 0 3	0 0 4	0 0 5	0 0 6
9	0 0 4	0 0 5	0 0 6	0 0 7
10	0 0 4	0 0 5	0 0 7	0 0 8
20	0 0 8	0 1 1	0 1 3	0 1 5
30	0 1 3	0 1 6	0 2 0	0 2 3
40	0 1 7	0 2 2	0 2 6	0 3 1
50	0 2 2	0 2 7	0 3 3	0 3 8
100	0 4 4	0 5 5	0 6 6	0 7 7
200	0 8 8	0 11 0	0 13 2	0 15 3
300	0 13 1	0 16 4	0 19 7	0 23 0
400	0 17 5	0 21 9	0 26 3	0 30 7
500	0 21 9	0 27 3	0 32 9	0 38 4
1000	0 43 8	0 54 8	0 65 8	0 76 7

5 Days.				
\$ 1	0 0 0	0 0 0	0 0 1	0 0 1
2	0 0 1	0 0 1	0 0 2	0 0 2
3	0 0 2	0 0 2	0 0 2	0 0 3
4	0 0 2	0 0 2	0 0 3	0 0 4
5	0 0 3	0 0 3	0 0 4	0 0 5
6	0 0 3	0 0 4	0 0 5	0 0 6
7	0 0 4	0 0 4	0 0 6	0 0 6
8	0 0 4	0 0 5	0 0 6	0 0 7
19	0 0 5	0 0 6	0 0 7	0 0 8
20	0 0 5	0 0 7	0 0 8	0 1 0
30	0 1 1	0 1 4	0 1 6	0 2 0
40	0 1 6	0 2 1	0 2 4	0 3 0
50	0 2 2	0 2 7	0 3 3	0 3 8
60	0 2 7	0 3 5	0 4 1	0 4 8
100	0 5 5	0 6 8	0 8 2	0 9 6
200	0 11 0	0 13 5	0 16 5	0 19 4
300	0 16 4	0 20 5	0 24 6	0 28 8
400	0 21 9	0 27 4	0 32 8	0 38 5
500	0 27 4	0 34 2	0 41 1	0 48 0
1000	0 54 8	0 68 5	0 82 2	0 95 9



# SIMPLE INTEREST.

147

6 Days.	4 per cent.	5 per. cent.	6 per cent.	7 per cent.
Prin.	\$ C. M.	\$ C. M.	\$ C. M.	\$ C. M.

\$ 1	0 0 0	0 0 1	0 0 1	0 0 1
2	0 0 1	0 0 2	0 0 2	0 0 2
3	0 0 2	0 0 2	0 0 3	0 0 3
4	0 0 3	0 0 3	0 0 4	0 0 5
5	0 0 3	0 0 4	0 0 5	0 0 6
6	0 0 4	0 0 5	0 0 6	0 0 7
8	0 0 5	0 0 5	0 0 7	0 0 8
8	0 0 5	0 0 6	0 0 8	0 0 9
9	0 0 6	0 0 7	0 0 9	0 1 0
10	0 0 7	0 0 8	0 1 0	0 1 1
20	0 1 3	0 1 6	0 2 0	0 2 3
30	0 2 0	0 2 4	0 3 5	0 3 4
40	0 2 6	0 3 1	0 4 0	0 4 6
50	0 3 3	0 4 1	0 4 9	0 5 7
100	0 6 6	0 8 2	0 9 9	0 11 5
200	0 13 2	0 16 4	0 19 7	0 23 0
300	0 19 7	0 24 7	0 26 8	0 34 5
400	0 26 3	0 32 9	0 39 5	0 46 0
500	0 32 9	0 41 1	0 49 3	0 57 5
1000	0 65 8	0 82 2	0 98 6	1 15 0

## 7 Days.

\$ 1	0 0 1	0 0 1	0 0 1	0 0 1
2	0 0 2	0 0 2	0 0 2	0 0 3
3	0 0 2	0 0 3	0 0 3	0 0 4
4	0 0 3	0 0 4	0 0 5	0 0 5
5	0 0 4	0 0 5	0 0 6	0 0 7
6	0 0 5	0 0 6	0 0 7	0 0 8
7	0 0 5	0 0 7	0 0 8	0 0 9
8	0 0 6	0 0 8	0 0 9	0 1 1
9	0 0 7	0 0 9	0 1 0	0 1 2
10	0 0 8	0 1 0	0 1 1	0 1 3
20	0 1 5	0 2 0	0 2 3	0 2 7
30	0 2 3	0 2 9	0 3 4	0 4 0
40	0 3 1	0 3 8	0 4 6	0 5 4
50	0 3 8	0 4 8	0 5 7	0 6 7
100	0 7 7	0 9 6	0 11 5	0 13 4
200	0 15 3	0 19 1	0 23 0	0 26 8
300	0 23 0	0 28 8	0 34 5	0 40 3
400	0 30 7	0 38 4	0 46 0	0 53 7
500	0 38 4	0 48 0	0 57 5	0 67 1
1000	0 76 7	0 95 9	1 15 0	0 34 2

8 Days.				5 per cent.				6 per cent.				7 per cent.			
Prin.				S. C. M.				S. C. M.				S. C. M.			
\$ 1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2
2	0	0	2	0	0	2	0	0	3	0	0	3	0	0	3
3	0	0	3	0	0	3	0	0	4	0	0	5	0	0	5
4	0	0	4	0	0	4	0	0	5	0	0	6	0	0	6
5	0	0	5	0	0	5	0	0	7	0	0	8	0	0	8
6	0	0	6	0	0	6	0	0	8	0	0	9	0	0	9
7	0	0	7	0	0	7	0	0	9	0	0	1	0	1	1
8	0	0	8	0	0	8	0	1	0	0	1	2	0	1	2
9	0	0	9	0	1	0	0	1	1	0	1	4	0	1	4
10	0	1	0	0	1	1	0	1	3	0	1	5	0	1	5
20	0	1	7	0	2	2	0	2	6	0	3	1	0	3	1
30	0	2	6	0	3	3	0	3	9	0	4	6	0	4	6
40	0	3	5	0	4	4	0	5	2	0	6	1	0	6	1
50	0	4	4	0	5	5	0	6	6	0	7	7	0	7	7
100	0	8	8	0	11	0	0	13	2	0	15	3	0	15	3
200	0	17	6	0	22	0	0	26	4	0	30	7	0	30	7
300	0	26	3	0	32	8	0	39	4	0	46	0	0	46	0
400	0	35	1	0	43	8	0	52	3	0	61	4	0	61	4
500	0	43	9	0	54	8	0	65	8	0	77	0	0	77	0
1000	0	87	7	1	09	6	1	31	5	1	53	4			
9 Days.															
\$ 1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	2
2	0	0	2	0	0	2	0	0	3	0	0	3	0	0	3
3	0	0	3	0	0	4	0	0	5	0	0	5	0	0	5
4	0	0	4	0	0	5	0	0	6	0	0	7	0	0	7
5	0	0	5	0	0	6	0	0	7	0	0	9	0	0	9
6	0	0	6	0	0	7	0	0	9	0	0	1	0	1	1
7	0	0	7	0	0	8	0	1	0	0	1	2	0	1	2
8	0	0	8	0	1	0	0	1	2	0	1	4	0	1	4
9	0	0	9	0	1	1	0	1	3	0	1	6	0	1	6
10	0	1	0	0	1	2	0	1	5	0	1	7	0	1	7
20	0	2	0	0	2	4	0	3	0	0	3	4	0	3	4
30	0	3	0	0	3	7	0	4	4	0	5	9	0	5	9
40	0	4	0	0	5	0	0	5	9	0	6	6	0	6	6
50	0	5	0	0	6	2	0	7	4	0	8	4	0	8	4
100	0	10	0	0	12	3	0	14	8	0	17	2	0	17	2
200	0	20	0	0	24	7	0	29	6	0	34	4	0	34	4
300	0	30	0	0	37	0	0	44	4	0	51	6	0	51	6
400	0	40	0	0	49	3	0	59	2	0	69	0	0	69	0
500	0	49	3	0	61	6	0	74	0	0	86	3	0	86	3
1000	0	98	6	1	23	3	1	48	0	1	72	6			

## SIMPLE INTEREST.

149

10 Days.	4 per cent.			5 per cent.			6 per cent.			7 per cent.		
Prin.	\$	C.	M.	\$	C.	M.	\$	C.	M.	\$	C.	M.
1	0	0	1	0	0	1	0	0	2	0	0	2
2	0	0	2	0	0	3	0	0	3	0	0	4
3	0	0	3	0	0	4	0	0	5	0	0	6
4	0	0	4	0	0	5	0	0	7	0	0	8
5	0	0	5	0	0	7	0	0	8	0	1	0
6	0	0	6	0	0	8	0	1	0	0	1	2
7	0	0	7	0	1	0	0	1	2	0	1	3
8	0	0	8	0	1	1	0	1	3	0	1	5
9	0	1	0	0	1	2	0	1	5	0	1	7
10	0	1	1	0	1	4	0	1	6	0	2	0
20	0	2	2	0	2	8	0	3	3	0	4	0
30	0	3	3	0	4	1	0	4	9	0	6	0
40	0	4	4	0	5	4	0	6	6	0	7	7
50	0	5	5	0	7	0	0	8	2	0	9	6
100	0	11	0	0	13	7	0	16	4	0	19	2
200	0	22	0	0	27	1	0	33	0	0	38	8
300	0	32	8	0	41	1	0	49	3	0	57	6
400	9	43	8	0	54	8	0	65	7	0	76	7
500	0	54	8	0	68	5	0	82	2	0	96	0
1000	1	09	6	1	37	0	1	64	4	1	91	8

## 20 Days.

1	0	0	2	0	0	2	0	0	3	0	0	4
2	0	0	4	0	0	6	0	0	6	0	0	8
3	0	0	6	0	0	8	0	1	0	0	1	2
4	0	0	8	0	1	0	0	1	3	0	1	5
5	0	1	0	0	1	2	0	1	6	0	2	0
6	0	1	3	0	1	4	0	2	0	0	2	4
7	0	1	4	0	1	9	0	2	3	0	2	7
8	0	1	6	0	2	1	0	2	6	0	3	1
9	0	2	0	0	2	5	0	3	0	0	3	5
10	0	2	2	0	2	8	0	3	2	0	4	0
20	0	4	4	0	5	6	0	6	4	0	8	0
30	0	6	6	0	8	2	0	9	7	0	11	5
40	0	8	8	0	11	0	0	13	2	0	15	3
50	0	10	9	0	13	7	0	16	4	0	19	2
100	0	22	0	0	27	4	0	32	8	0	38	4
200	0	43	8	0	54	8	0	65	7	0	76	7
300	0	63	6	0	82	2	0	98	6	1	15	0
400	0	87	6	1	09	6	1	31	5	1	53	4
500	1	09	6	1	37	0	1	64	4	1	91	8
1000	2	19	2	2	74	0	2	28	8	3	83	6

## SIMPLE INTEREST.

Mo.	4 per cent.			5 per cent.			6 per cent.			7 per cent.		
Prin.	\$	C.	M.	\$	C.	M.	\$	C.	M.	\$	C.	M.
\$ 1	0	0	3	0	0	4	0	0	5	0	0	6
2	0	0	7	0	0	8	0	1	0	0	1	2
3	0	1	0	0	1	2	0	1	5	0	1	7
4	0	1	3	0	1	7	0	2	0	0	2	3
5	0	1	7	0	2	1	0	2	5	0	2	9
6	0	2	0	0	2	5	0	3	0	0	3	5
7	0	2	3	0	2	9	0	3	5	0	4	1
8	0	2	7	0	3	3	0	4	0	0	4	7
9	0	3	0	0	3	7	0	4	5	0	5	2
10	0	3	3	0	4	2	0	5	0	0	5	8
20	0	6	7	0	8	3	0	10	0	0	11	7
30	0	10	0	0	12	5	0	15	0	0	17	5
40	0	13	3	0	16	7	0	20	0	0	23	3
50	0	16	7	0	20	8	0	25	0	0	29	2
100	0	33	3	0	41	7	0	50	0	0	58	8
200	0	66	7	0	83	3	1	00	0	1	16	7
300	1	00	0	1	25	0	1	50	0	1	75	0
400	1	33	3	1	66	7	2	00	0	2	33	8
500	1	66	7	2	08	3	2	50	0	3	91	7
1000	3	33	3	4	16	7	5	00	0	5	83	3

## 2 Months.

\$ 1	0	0	7	0	0	8	0	1	0	0	1	2
2	0	1	3	0	1	7	0	2	0	0	2	3
3	0	2	0	0	2	5	0	3	0	0	3	5
4	0	2	7	0	3	3	0	4	0	0	4	7
5	0	3	3	0	4	2	0	5	0	0	5	8
6	0	4	0	0	5	0	0	6	0	0	7	0
7	0	4	7	0	5	8	0	7	0	0	8	2
8	0	5	3	0	6	7	0	8	0	0	9	3
9	0	6	0	0	7	5	0	9	0	0	10	5
10	0	6	7	0	8	3	0	10	0	0	11	7
20	0	13	3	0	16	7	0	20	0	0	23	3
30	0	20	0	0	25	0	0	30	0	0	35	0
40	0	26	7	0	33	3	0	40	0	0	46	7
50	0	33	3	0	41	7	0	50	0	0	58	3
100	0	66	7	0	83	3	1	00	0	1	16	7
200	1	33	3	1	66	7	2	00	0	2	33	3
300	2	00	0	2	50	0	3	00	0	3	50	0
400	2	66	7	3	33	3	4	00	0	4	66	7
500	3	33	3	4	16	7	5	00	0	5	83	3
1000	6	66	7	8	33	3	10	00	0	11	66	7

## SIMPLE INTEREST.

167

3 Mo.	4 per cent.			5 per cent.			6 per cent.			7 per cent.		
Prin.	\$	C.	M.	\$	C.	M.	\$	C.	M.	\$	C.	M.
\$ 1	0	1	0	0	1	2	0	1	5	0	1	7
2	0	2	0	0	2	5	0	3	0	0	3	5
3	0	3	0	0	3	7	0	4	5	0	5	2
4	0	4	0	0	5	0	0	6	0	0	7	0
5	0	5	0	0	6	2	0	7	5	0	8	7
6	0	6	0	0	7	5	0	9	0	0	10	5
7	0	7	0	0	8	7	0	10	5	0	12	2
8	0	8	0	0	10	0	0	12	0	0	14	0
9	0	9	0	0	11	2	0	13	5	0	15	7
10	0	10	0	0	12	5	0	15	0	0	17	5
20	0	20	0	0	25	0	0	30	0	0	35	0
30	0	30	0	0	37	5	0	45	0	0	53	5
40	0	40	0	0	50	0	0	60	0	0	70	0
50	0	50	0	0	62	5	0	75	0	0	87	5
100	1	00	0	1	25	0	1	50	0	1	75	0
200	2	00	0	2	50	0	3	00	0	3	50	0
300	3	00	0	3	75	0	4	50	0	5	25	0
400	4	00	0	5	00	0	6	00	0	7	00	0
500	5	00	0	6	25	0	7	50	0	8	75	0
1000	10	00	0	12	50	0	15	00	0	17	50	0

## 6 MONTHS.

\$ 1	0	2	0	0	2	5	0	3	0	0	3	5
2	0	4	0	0	5	0	0	6	0	0	7	0
3	0	6	0	0	7	5	0	9	0	0	10	5
4	0	8	0	0	10	0	0	12	0	0	14	0
5	0	10	0	0	12	5	0	15	0	0	17	5
6	0	12	0	0	15	0	0	18	0	0	21	0
7	0	14	0	0	17	5	0	21	0	0	24	5
8	0	16	0	0	20	0	0	24	0	0	28	0
9	0	18	0	0	22	5	0	27	0	0	31	5
10	0	20	0	0	25	0	0	30	0	0	35	0
20	0	40	0	0	50	0	0	60	0	0	70	0
30	0	60	0	0	75	0	0	90	0	1	05	0
40	0	80	0	1	00	0	1	20	0	1	40	0
50	1	00	0	1	25	0	1	50	0	1	75	0
100	2	00	0	2	50	0	3	00	0	3	50	0
200	4	00	0	5	00	0	6	00	0	7	00	0
300	6	00	0	7	50	0	9	00	0	10	50	0
400	8	00	0	10	00	0	12	00	0	14	00	0
500	10	00	0	12	50	0	15	00	0	17	50	0
1000	20	00	0	25	00	0	30	00	0	35	00	0

## SIMPLE INTEREST.

9 Mo.	4 per cent.	5 per cent.	6 per cent.	7 per cent.
Prin.	\$ C. M.	\$ C. M.	\$ C. M.	\$ C. M.
\$ 1	0 3 0	0 3 7	0 4 5	0 5 2
2	0 6 0	0 7 5	0 9 0	0 10 5
3	0 9 0	0 11 2	0 13 5	0 15 7
4	0 12 0	0 15 0	0 18 0	0 21 0
5	0 15 0	0 18 7	0 22 5	0 26 2
6	0 18 0	0 22 5	0 27 0	0 31 5
7	0 21 0	0 26 2	0 31 5	0 36 7
8	0 24 0	0 30 0	0 36 0	0 42 0
9	0 27 0	0 33 7	0 40 5	0 47 2
10	0 30 0	0 37 5	0 45 0	0 52 5
20	0 60 0	0 75 0	0 90 0	1 05 0
30	0 90 0	1 12 5	1 35 0	1 57 5
40	1 20 0	1 50 0	1 80 0	2 10 0
50	1 50 0	1 87 5	2 25 0	2 62 5
100	3 00 0	3 75 0	4 50 0	5 25 0
200	6 00 0	7 50 0	9 00 0	10 50 0
300	9 00 0	11 25 0	13 50 0	15 75 0
400	12 00 0	15 00 0	18 00 0	21 00 0
500	15 00 0	18 75 0	22 50 0	26 25 0
1000	30 00 0	37 50 0	45 00 0	52 50 0

1 YEAR.

\$ 1	0 4 0	0 5 0	0 6 0	0 7 0
2	0 8 0	0 10 0	0 12 0	0 14 0
3	0 12 0	0 15 0	0 18 0	0 21 0
4	0 16 0	0 20 0	0 24 0	0 28 0
5	0 20 0	0 25 0	0 30 0	0 35 0
6	0 24 0	0 30 0	0 36 0	0 42 0
7	0 28 0	0 35 0	0 42 0	0 49 0
8	0 32 0	0 40 0	0 48 0	0 56 0
9	0 36 0	0 45 0	0 54 0	0 63 0
10	0 40 0	0 50 0	0 60 0	0 70 0
20	0 80 0	1 00 0	1 20 0	1 40 0
30	1 20 0	1 50 0	1 80 0	2 10 0
40	1 60 0	2 00 0	2 40 0	2 80 0
50	2 00 0	2 50 0	3 00 0	3 50 0
100	4 00 0	5 00 0	6 00 0	7 00 0
200	8 00 0	10 00 0	12 00 0	14 00 0
300	12 00 0	15 00 0	18 00 0	21 00 0
400	16 00 0	20 00 0	24 00 0	28 00 0
500	20 00 0	25 00 0	30 00 0	35 00 0
1000	40 00 0	50 00 0	60 00 0	70 00 0

# TABLE,

*Shewing how a Dollar is reckoned in the different States.*

Thus—

In New-Hampshire  
Massachusetts  
Rhode-Island  
Connecticut  
Vermont  
Virginia  
Kentucky and  
Tennessee.

6s. to the Dollar.

New-York and  
North Carolina.

8s. to the Dollar.

New-Jersey  
Pennsylvania  
Delaware and  
Maryland.

7s. 6d. to the Dollar.

South Carolina  
and  
Georgia.

4s. 8d. to the Dollar.



# A TABLE.

Of the several Currencies of the United States, reduced to an equivalent value of Federal Currency, from one farthing to one hundred pounds.

	4s. 8d. to \$			6s. to \$			7s. 6d. to \$			8s. to \$		
Gr.	\$	C.	M.	\$	C.	M.	\$	C.	M.	\$	C.	M.
1	0	0	4	0	0	3	0	0	3	0	0	3
2	0	0	9	0	0	7	0	0	6	0	0	5
3	0	1	4	0	1	0	0	0	8	0	0	8
D.												
1	0	1	8	0	1	3	0	1	1	0	1	0
2	0	3	6	0	2	8	0	2	2	0	2	1
3	0	5	4	0	4	2	0	3	3	0	3	1
4	0	7	1	0	5	6	0	4	4	0	4	2
5	0	8	9	0	6	8	0	5	6	0	5	2
6	0	10	7	0	8	3	0	6	7	0	6	2
7	0	12	5	0	9	6	0	7	8	0	7	3
8	0	14	3	0	11	1	0	8	9	0	8	3
9	0	16	1	0	12	5	0	10	0	0	9	4
10	0	17	9	0	13	9	0	11	1	0	10	4
11	0	19	7	0	15	3	0	12	2	0	11	4
S.												
1	0	21	4	0	16	6	0	13	3	0	12	5
2	0	42	9	0	33	3	0	26	6	0	25	0
3	0	64	3	0	50	0	0	40	0	0	37	5
4	0	85	7	0	66	6	0	53	3	0	50	0
5	1	7	1	0	83	3	0	66	6	0	62	5
6	1	28	6	1	00	0	0	80	0	0	75	0
7	1	50	0	1	16	6	0	93	3	0	87	5
8	1	71	4	1	33	3	1	06	6	1	00	0
9	1	92	9	1	50	0	1	20	0	1	12	5
10	2	14	3	1	66	6	1	33	3	1	25	0
11	2	35	7	1	83	3	1	46	6	1	37	5
12	2	57	1	2	00	0	1	60	0	1	50	0
13	2	78	6	2	16	6	1	73	3	1	62	5
14	3	00	0	2	33	3	1	86	6	1	75	0
15	3	21	4	2	50	0	2	00	0	1	87	5
16	3	42	9	2	66	6	2	13	3	2	00	0
17	3	64	3	2	83	3	2	26	6	2	12	5
18	3	85	7	3	00	0	2	40	0	2	25	0
19	4	07	1	3	16	6	2	53	3	2	37	5

L.	4s. 3d. to £	6s. to £	7s. 6d. to £	10s. to £
L.	£ C. M.	£ C. M.	£ C. M.	£ C.
1	4 28 6	3 33 3	2 66 6	2 50
2	8 57 1	6 66 6	5 23 3	5 00
3	12 85 7	10 00 0	8 00 0	7 50
4	17 14 3	13 33 3	10 66 6	10 00
5	21 42 9	16 66 6	13 33 3	12 50
6	25 71 4	20 00 0	16 00 0	15 00
7	30 00 0	23 33 3	18 66 6	17 50
8	34 28 6	26 66 6	21 33 3	20 00
9	38 57 1	30 00 0	24 00 0	22 50
10	42 85 7	33 33 3	26 66 6	25 00
11	47 14 3	36 66 6	29 33 3	27 50
12	51 42 9	40 00 0	32 00 0	30 00
13	55 71 4	43 33 3	34 66 6	32 50
14	60 00 0	46 66 6	37 33 3	35 00
15	64 28 6	50 00 0	40 00 0	37 50
16	68 57 1	53 33 3	42 66 6	40 00
17	72 85 7	56 66 6	45 33 3	42 50
18	77 14 3	60 00 0	48 00 0	45 00
19	81 42 9	63 33 3	50 66 6	47 50
20	85 71 4	66 66 6	53 33 3	50 00
30	128 57 1	100 00 0	80 00 0	75 00
40	171 42 9	133 33 3	106 66 6	100 00
50	214 28 6	166 66 6	133 33 3	125 00
60	257 14 3	200 00 0	160 00 0	150 00
70	300 00 0	233 33 3	186 66 6	175 00
80	342 85 7	266 66 6	213 33 3	200 00
90	385 71 4	300 00 0	240 00 0	225 00
100	428 57 1	333 33 3	266 66 6	250 00

# TABLE.

Of Federal Currency, from one cent to two thousand dollars, reduced to an equivalent value in pounds, shillings, pence and farthings, of all the different Currencies in the United States.

Cent	4s. 6d. to \$			6s. to \$			7s. 6d. to \$			8s. to \$		
	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.
1	0	0	2	0	0	3	0	1	0	0	1	0
2	0	1	0	0	1	2	0	1	3	0	2	0
3	0	1	3	0	2	1	0	2	3	0	3	0
4	0	2	1	0	3	0	0	3	2	0	3	3
5	0	2	3	0	3	2	0	4	2	0	4	3
6	0	3	1	0	4	1	0	5	2	0	5	3
7	0	4	0	0	5	0	0	6	1	0	6	2
8	0	4	2	0	5	3	0	7	1	0	7	3
9	0	5	0	0	6	3	0	8	0	0	8	2
10	0	5	2	0	7	1	0	9	0	0	9	2
11	0	6	1	0	8	0	0	10	0	0	10	2
12	0	6	3	0	8	3	0	10	3	0	11	2
13	0	7	1	0	9	1	0	11	3	1	0	2
14	0	7	3	0	10	0	1	0	2	1	1	2
15	0	8	2	0	10	3	1	1	2	1	2	2
16	0	9	0	0	11	2	1	2	2	1	3	1
17	0	9	2	1	0	1	1	3	1	1	4	1
18	0	10	0	1	1	0	1	4	1	1	5	1
19	0	10	3	1	1	3	1	5	0	1	6	1
20	0	11	1	1	2	2	1	6	0	1	7	1
21	0	11	3	1	3	0	1	7	0	1	8	1
22	1	0	1	1	3	3	1	7	3	1	9	0
23	1	1	0	1	4	2	1	8	2	1	10	0
24	1	1	2	1	5	1	1	9	2	1	11	0
25	1	2	0	1	6	0	1	10	2	2	0	0
26	1	2	2	1	6	3	1	11	2	2	1	0
27	1	3	0	1	7	2	2	0	1	2	2	0
28	1	3	3	1	8	1	2	1	1	2	3	0
29	1	4	1	1	9	0	2	2	0	2	3	3

	4s. 8d. 10s			6s. 10s			7s. 6d. 10s			8s. 10s		
Cent	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.
30	1	4	3	1	9	2	2	3	0	2	4	3
31	1	5	1	1	10	1	2	4	0	2	5	3
32	1	6	0	1	11	0	2	4	3	2	6	3
33	1	6	2	1	11	2	2	5	2	2	7	3
34	1	7	0	2	0	2	2	6	2	2	8	3
35	1	7	2	2	1	1	2	7	2	2	9	2
36	1	8	1	2	2	0	2	8	1	2	10	2
37	1	8	3	2	2	3	2	9	1	2	11	2
38	1	9	1	2	3	1	2	10	1	3	0	2
39	1	9	3	2	4	0	2	11	0	3	1	2
40	1	10	2	2	4	3	3	0	0	3	2	2
41	1	11	0	2	5	2	3	1	0	3	3	1
42	1	11	2	2	6	1	3	1	3	3	4	1
43	2	0	0	2	7	0	3	2	3	3	5	1
44	2	0	3	2	7	3	3	3	2	3	6	1
45	2	1	1	2	8	2	3	4	2	3	7	1
46	2	1	3	2	9	0	3	5	1	3	8	1
47	2	2	1	2	9	3	3	6	1	3	9	0
48	2	3	0	2	10	2	3	7	1	3	10	0
49	2	3	2	2	11	1	3	8	0	3	11	0
50	2	4	0	3	0	0	3	9	0	4	0	0
51	2	4	2	3	0	3	3	10	0	4	1	0
52	2	5	0	3	1	2	3	10	3	4	2	0
53	2	5	3	3	2	1	3	11	3	4	3	0
54	2	6	1	3	3	0	4	0	2	4	3	3
55	2	6	3	3	3	2	4	1	2	4	4	3
56	2	7	1	3	4	1	4	2	2	4	5	3
57	2	8	0	3	5	0	4	3	1	4	6	3
58	2	8	2	3	5	3	4	4	1	4	7	3
59	2	9	0	3	6	2	4	5	0	4	8	3
60	2	9	2	3	7	1	4	6	0	4	9	2
61	2	10	1	3	8	0	4	7	0	4	10	2
62	2	10	3	3	8	3	4	7	3	4	11	2
63	2	11	1	3	9	1	4	8	3	5	0	2
64	2	11	3	3	10	0	4	9	2	5	1	2

Cent	4s. 8d. to £			6s. to £			7s. 6d. to £			8s. to £		
	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.	S.	D.	Qr.
65	3	0	2	3	10	3	4	10	2	5	2	2
66	3	1	0	3	11	2	4	11	2	5	3	1
67	3	1	2	4	0	1	5	0	1	5	4	1
68	3	2	0	4	1	0	5	1	1	5	5	1
69	3	2	3	4	1	3	5	2	0	5	6	1
70	3	3	1	4	2	2	5	3	0	5	7	1
71	3	3	3	4	3	0	5	4	0	5	8	1
72	3	4	1	4	3	3	5	4	3	5	9	0
73	3	5	0	4	4	2	5	5	3	5	10	0
74	3	6	2	4	5	1	5	6	2	5	11	0
75	3	6	0	4	6	0	5	7	2	6	0	0
76	3	6	2	4	6	3	5	8	2	6	1	0
77	3	7	0	4	7	2	5	9	1	6	2	0
78	3	7	3	4	8	1	5	10	1	6	3	0
79	3	8	1	4	9	0	5	11	0	6	3	3
80	3	8	3	4	9	2	6	0	0	6	4	3
81	3	9	1	4	10	1	6	1	0	6	5	3
82	3	10	0	4	11	0	6	1	3	6	6	3
83	2	10	2	4	11	3	6	2	3	6	7	3
84	3	11	0	5	0	2	6	3	2	6	8	3
85	3	11	2	5	1	1	6	4	2	6	9	2
86	4	0	1	5	2	0	6	5	2	6	10	2
87	4	0	3	5	2	3	6	6	1	6	11	2
88	4	1	1	5	3	1	6	7	1	7	0	2
89	4	1	3	5	4	0	6	8	0	7	1	2
90	4	2	2	5	4	3	6	9	0	7	2	2
91	4	3	0	5	5	2	6	10	0	7	3	1
92	4	3	2	5	6	1	6	10	3	7	4	1
93	4	4	0	5	7	0	6	11	3	7	5	1
94	4	4	3	5	7	3	7	0	2	7	6	1
95	4	5	1	5	8	2	7	1	2	7	7	1
96	4	6	3	5	9	0	7	2	1	7	8	1
97	4	6	1	5	9	3	7	3	1	7	9	0
98	4	7	0	5	10	2	7	4	1	7	10	0
99	4	7	2	5	11	1	7	5	0	7	11	0

<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>	<del>1000</del>
8	L. S. D.	L. S. D.	L. S. D.	L. S. D.	L. S. D.	L. S. D.	L. S. D.	L. S. D.	L. S. D.
1	0 4 8	0 6 0	0 7 6	0 8 0					
2	0 9 4	0 12 0	0 15 0	0 16 0					
3	0 14 0	0 18 0	1 2 6	1 4 0					
4	0 18 8	1 4 0	1 10 0	1 12 0					
5	1 3 4	1 10 0	1 17 6	2 0 0					
6	1 8 0	1 16 0	2 5 0	2 8 0					
7	1 12 8	2 2 0	2 12 6	2 16 0					
8	1 17 4	2 8 0	3 0 0	3 4 0					
9	2 2 0	2 14 0	3 7 6	3 12 0					
10	2 6 8	3 0 0	3 15 0	4 0 0					
11	2 11 4	3 6 0	4 2 6	4 8 0					
12	2 16 0	3 12 0	4 10 0	4 16 0					
13	3 0 8	3 18 0	4 17 6	5 4 0					
14	3 5 4	4 4 0	5 5 0	5 12 0					
15	3 10 0	4 10 0	5 12 6	6 0 0					
16	3 14 8	4 16 0	6 0 0	6 8 0					
17	3 19 4	5 2 0	6 7 6	6 16 0					
18	4 4 0	5 8 0	6 15 0	7 4 0					
19	4 8 8	5 14 0	7 2 6	7 12 0					
20	4 13 4	6 0 0	7 10 0	8 0 0					
30	7 0 0	9 0 0	11 5 0	12 0 0					
40	9 6 8	12 0 0	15 0 0	16 0 0					
50	11 13 4	15 0 0	18 15 0	20 0 0					
60	14 0 0	18 0 0	22 10 0	24 0 0					
70	16 6 8	21 0 0	26 5 0	28 0 0					
80	18 13 4	24 0 0	30 0 0	32 0 0					
90	21 0 0	27 0 0	33 15 0	36 0 0					
100	23 6 8	30 0 0	37 10 0	40 0 0					
200	46 13 4	60 0 0	75 0 0	80 0 0					
300	70 0 0	90 0 0	112 10 0	120 0 0					
400	93 6 8	120 0 0	150 0 0	160 0 0					
500	116 13 4	150 0 0	187 10 0	200 0 0					
600	140 0 0	180 0 0	225 0 0	240 0 0					
700	163 6 8	210 0 0	262 10 0	280 0 0					
800	186 13 4	240 0 0	300 0 0	320 0 0					
900	210 0 0	270 0 0	337 10 0	360 0 0					
1000	233 6 8	300 0 0	375 0 0	400 0 0					
2000	466 13 4	600 0 0	750 0 0	800 0 0					

# TABLES,

SHEWING THE

## MONEY OF ACCOUNT

*In most foreign countries—their value in federal currency—exchanges, and rules of reduction.*

### NAPLES.

20 grains make	-	-	-	1 train
5 trains	-	-	-	1 ducat

		\$	C.	M.
1 grain is equal to	-	-	-	0 0 7½
1 train	-	-	-	0 15 0
1 ducat	-	-	-	0 75 0

*Note.*—Exchanges are negotiated by the ducat.—  
To reduce any number of ducats to dollars and cents, multiply by 7½, point off two figures to the right hand for cents, all to the left will be dollars.

### CHINA.

10 cash make	-	-	1 candareen
10 candareens	-	-	1 mace
10 maces	-	-	1 tale



	\$	C.	M.
1 candareen is equal to	0	1	$4\frac{8}{16}$
1 marc	0	14	0
1 tale	1	48	0

*Note.* Exchanges are negotiated by the tale.—To reduce any number of tales to dollars and cents, multiply by 148, point off two figures to the right hand for cents—all to the left will be dollars.

## BENGAL.

12 pice make	1 ana
16 anas	1 rupee.

	\$	C.	M.
1 ana is equal to	0	3	$4\frac{1}{16}$
1 rupee	0	55	$5\frac{1}{2}$

*Note.* Exchanges are negotiated by the rupee.—To reduce any number of rupees to dollars, cents and mills, multiply by 55. Point off one figure to the right hand for mills, the two next for cents—all to the left will be dollars.

## DENMARK AND NORWAY.

16 skillings make	1 marc
6 marcs	1 rix dollar.

	\$	C.	M.
1 skilling is equal to	0	1	$4\frac{1}{16}$
1 marc	0	16	$6\frac{2}{3}$
1 rix dollar	1	0	0

*Note.* Exchanges are negotiated by the rix dollar.

## SWITZERLAND.

4 fenings make	-	-	1 cruizter
60 cruizters	-	-	1 florin.

		\$	C.	M.
1 fening is equal to	-	0	0	2½
1 cruizter	-	0	0	9¾
1 florin	-	0	58	0

*Note.* Exchanges are negotiated by the florin.—To reduce any number of florins to dollars and cents, multiply by 58, point off two figures to the right hand for cents, all to the left will be dollars.

## RUSSIA.

100 mecosques make	-	-	1 grive
10 griven	-	-	1 ruble.

		\$	C.	M.
1 mecosques is equal to	-	0	0	5
1 grive	-	0	10	0
1 ruble	-	1	0	0

*Note.* Exchanges are negotiated by the ruble.

## VENICE.

12 denars make	-	-	1 soldi
724 soldis	-	-	1 ducat banco.

		\$	C.	M.
1 denar is equal to	-	0	0	06¼
1 soldi	-	0	0	7½
1 ducat banco	-	0	93	0

*Note.* Exchanges are negotiated by the ducat banco.

To reduce any number of ducat bancos to dollars and cents, multiply by 93, point off two figures to the right hand for cents, all to the left will be dollars.

# PORTUGAL.

1000 reas make 1 milrea.

	\$	C.	M.
1 rea is equal to	0	0	1 $\frac{1}{2}$
1 milrea	1	24	0

## ALSO.

3200 vintans make 1 mill dollar.  
 32 do. 1 Portuguese dollar.

	\$	C.	M.
1 vintan is equal to	0	2	6 $\frac{1}{2}$
1 Portuguese dollar	0	85	3 $\frac{1}{2}$
1 mill dollar	1	0	0

*Note.* Exchanges are negotiated by the milrea.—  
 To reduce any number of milreas to dollars and cents,  
 multiply by 124, point off two figures to the right hand  
 for cents, all to the left will be dollars.

# HOLLAND.

16 phennings make 1 stiver.  
 20 stivers 1 guilder.

	\$	C.	M.
1 phenning is equal to	0	0	1.2 $\frac{1}{2}$
1 stiver	0	1	2 $\frac{1}{2}$
1 guilder	0	39	0

*Note.* Exchanges are negotiated by the guilder.—  
 To reduce any number of guilders to dollars and cents,  
 multiply by 39, point off two figures to the right hand  
 for cents, all to the left will be dollars.

## HAMBURG.

12 deniers make 1 sollub  
16 solluba 1 mark banco

	\$	C.	M.
1 denier is equal to	0	0	$\frac{1}{2}$
1 sollub	0	2	$\frac{1}{2}$
1 mark banco	0	33	$\frac{1}{2}$

*Note.* Exchanges are negotiated by the mark banco. To reduce any number of marks banco to dollars and cents, multiply by 33 $\frac{1}{2}$ , point off two figures to the right hand for cents, all to the left will be dollars.

## IRELAND.

12 pence make 1 shilling  
20 shillings 1 pound.

	\$	C.	M.
1 penny is equal to	0	1	$\frac{7}{12}$
1 shilling	0	20	$\frac{5}{12}$
1 pound	4	10	0

*Note.* Exchanges are negotiated by the pound.—To reduce any number of pounds to dollars and cents, multiply by 410, point off two figures to the right hand for cents, all to left will be dollars.

## CANADA AND NOVA-SCOTIA.

12 pence make 1 shilling  
20 shillings 1 pound.

	\$	C.	M.
1 penny is equal to	0	1	$6\frac{2}{3}$
1 shilling	0	20	0
1 pound	4	0	0

*Note.* Exchanges are negotiated by the pound.—To reduce any number of pounds to dollars, multiply by 4.

## ENGLAND.

4 farthings make	-	1 penny
12 pence	-	1 shilling
20 shillings	-	1 pound.

		£	C.	M.
1 farthing is equal to	-	0	0	$4\frac{1}{4}$
1 penny	-	0	1	$8\frac{1}{2}$
1 shilling	-	0	22	2
1 pound	-	4	44	0

*Note.* Exchanges are negotiated by the pound.—To reduce any number of pounds to dollars and cents, multiply by 444, point off two figures to the right hand for cents, all to the left will be dollars.

## TURKEY, EGYPT, AND BARBARY.

120 aspers make	-	1 cara grouch.
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		£	C.	M.
1 asper is equal to	-	0	0	$8\frac{1}{3}$
1 cara grouch	-	1	0	0

*Note.*—Exchanges are negotiated by the cara grouch and asper.

1. To reduce any number of cara grouches to dollars and cents, multiply by 100, point off two figures to the right hand for cents, all to the left will be dollars.

2. To reduce any number of aspers to dollars, cents, and mills, multiply by  $8\frac{1}{3}$ , point off one figure to the right hand for mills, the two next for cents, all to the left will be dollars.

## FRANCE.

12 deniers make	1 sol
20 sols	1 livre.

	\$	C.	M.
1 denier is equal to	0	0	0 <sup>37</sup> / <sub>4</sub>
1 sol	0	0	9 <sup>1</sup> / <sub>4</sub>
1 livre	0	18	0 <sup>9</sup> / <sub>4</sub>

*Note.*—Exchanges are negotiated by the livre.—To reduce any number of livres to dollars, cents, and mills, multiply by 185, point off one figure to the right hand for mills, the two next for cents, all to the left will be dollars.

## GENOA.

12 denaries make	1 soldi
20 soldies	1 pezzo.

	\$	C.	M.
1 denari is equal to	0	0	4 <sup>1</sup> / <sub>4</sub>
1 soldi	0	5	0
1 pezzo	1	0	0

*Note.*—Exchanges are negotiated by the pezzo.—To reduce any number of pezzos to dollars and cents, multiply by 100, point off two figures to the right hand for cents, all to the left will be dollars.

## ROME.

10 bajoches make	1 julio
12 julios	1 stamp crown.

	\$	C.	M.
1 bajoche is equal to	0	1	1 <sup>1</sup> / <sub>4</sub>
1 julio	0	11	2 <sup>1</sup> / <sub>4</sub>
1 stamp crown,	1	35	0

*Note.*—Exchanges are negotiated by the stamp crown. To reduce any number of stamp crowns to dollars and cents, multiply by 135, point off two figures to the right hand for cents, all to the left will be dollars.

## FORT ST. GEORGE, INDIA.

20 cash make	1 fanam
36 fanams	1 pagoda.

	\$	C.	M.
1 cash is equal to	0	0	$2\frac{2}{3}$
1 fanam	0	5	$3\frac{8}{9}$
1 pagoda	1	94	0

*Note.*—Exchanges are negotiated by the pagoda.—To reduce any number of pagodas to dollars and cents, multiply by 194, point off two figures to the right hand for cents, all to the left will be dollars.

## POLAND AND PRUSSIA.

18 penis make	1 gros
30 gros	1 florin
3 florins	1 rix dollar

	\$	C.	M.
1 gros is equal to	0	1	$6\frac{1}{10}$
1 florin	0	33	$\frac{1}{2}$ 0
1 rix dollar	1	0	0

*Note.*—Exchanges are negotiated by the rix dollar.

## ST. HELENA.

12 pence make	1 shilling
5 shillings	1 dollar
4 dollars	1 pound.



	\$	C.	M.
1 penny is equal to	0	1	6 $\frac{1}{2}$
1 shilling	0	20	0
1 dollar	1	0	0
1 pound	4	0	0

*Note.*—Exchanges are negotiated by the pound.—  
To reduce any number of pounds to dollars, multiply  
by 4.

## SPAIN.

34 marvadies make	1 rial of plate
8, rials of plate	1 piastre.

	\$	C.	M.
1 marvadie is equal to	0	0	2 $\frac{1}{4}$
1 rial of plate	0	10	0
1 piastre	0	80	0

*Note.*—Exchanges are negotiated by the piastre and  
rial of plate.

1. To reduce any number of piastres to dollars and  
cents, multiply by 80, point off two figures to the right  
hand for cents, all to the left will be dollars.

2. To reduce any number of rials of plate to dollars  
and cents, multiply by 10, point off two figures to the  
right hand for cents, all to the left will be dollars.

## SWEDEN.

62 rustics or orts make	1 copper dollar.
-------------------------	------------------

1 copper dollar is equal to \$ 0 11 $\frac{1}{2}$  cents.

*Note.*—Exchanges are negotiated by the copper dol-  
lar. To reduce any number of copper dollars to dollars  
and cents, multiply by 11 $\frac{1}{2}$  point off two figures to the  
right hand, for cents, all to the left will be dollars.

The copper dollar is often above and as often  
below this par of exchange. 6 copper dollars often  
pass at Stockholm for 1rix dollar, which is valuing  
the copper dollar at

\$ 0 16  $\frac{2}{3}$

# A TABLE

Shewing the value of French and Spanish Gold Coins, (of their present standard) reduced to an equivalent value in dollars, cents, and Mills. Calculated for the use, of the several Banks and Counting-houses in the United States:

Pt. gr.	\$ C. M.	Pt. gr.	\$ C. M.	Pt. gr.	\$ C. M.
0 1	0 36	1 13	1 35 0	3 1	2 56 4
0 2	0 73	1 14	1 38 7	3 2	2 70 0
0 3	0 110	1 15	1 42 3	3 3	2 73 7
0 4	0 146	1 16	1 46 0	3 4	2 77 3
0 5	0 182	1 17	1 49 6	3 5	2 80 9
0 6	0 219	1 18	1 53 3	3 6	2 84 6
0 7	0 255	1 19	1 56 9	3 7	2 88 2
0 8	0 292	1 20	1 60 5	3 8	2 91 9
0 9	0 328	1 21	1 64 2	3 9	2 95 5
0 10	0 365	1 22	1 67 9	3 10	2 99 2
0 11	0 401	1 23	1 71 5	3 11	3 02 8
0 12	0 438	2 00	1 75 2	3 12	3 06 5
0 13	0 474	2 1	1 78 8	3 13	3 10 1
0 14	0 511	2 2	1 82 5	3 14	3 13 8
0 15	0 547	2 3	1 86 2	3 15	3 17 3
0 16	0 584	2 4	1 89 8	3 16	3 21 1
0 17	0 620	2 5	1 93 4	3 17	3 24 8
0 18	0 657	2 6	1 97 1	3 18	3 28 4
0 19	0 693	2 7	2 00 7	3 19	3 32 0
0 20	0 730	2 8	2 04 4	3 20	3 35 7
0 21	0 766	2 9	2 08 0	3 21	3 39 3
0 22	0 803	2 10	2 11 7	3 22	3 43 0
0 23	0 839	2 11	2 15 3	3 23	3 46 6
1 00	0 876	2 12	2 19 0	4 0	3 50 3
1 1	0 912	2 13	2 22 6	4 1	3 53 9
1 2	0 949	2 14	2 26 3	4 2	3 57 6
1 3	0 986	2 15	2 29 9	4 3	3 61 3
1 4	1 022	2 16	2 33 6	4 4	3 64 9
1 5	1 068	2 17	2 37 2	4 5	3 68 5
1 6	1 095	2 18	2 40 9	4 6	3 72 2
1 7	1 131	2 19	2 44 5	4 7	3 75 8
1 8	1 168	2 20	2 48 2	4 8	3 79 5
1 9	1 204	2 21	2 51 8	4 9	3 83 1
1 10	1 241	2 22	2 55 5	4 10	3 86 8
1 11	1 277	2 23	2 59 1	4 11	3 90 4
1 12	1 314	3 0	2 62 8	4 12	3 94 1

Pt. gr.	S C. M.	Pt. gr.	S C. M.	Pt. gr.	S C. M.
4 13	3 97 7	6 5	5 43 7	7 21	6 89 7
4 14	4 01 4	6 6	5 47 4	7 22	6 93 4
4 15	4 05 0	6 7	5 51 5	7 23	6 97 0
4 16	4 08 6	6 8	5 54 7	8 00	7 00 7
4 17	4 12 3	6 9	5 58 3	8 1	7 04 3
4 18	4 16 0	6 10	5 62 0	8 2	7 08 0
4 19	4 19 6	6 11	5 65 6	8 3	7 11 6
4 20	4 23 3	6 12	5 69 3	8 4	7 15 3
4 21	4 26 9	6 13	5 72 9	8 5	7 18 9
4 22	4 30 6	6 14	5 76 6	8 6	7 22 6
4 23	4 34 2	6 15	5 80 1	8 7	7 26 2
5 00	4 37 9	6 16	5 83 9	8 8	7 29 9
5 1	4 41 6	6 17	5 87 6	8 9	7 33 5
5 2	4 45 2	6 18	5 91 2	8 10	7 37 2
5 3	4 48 8	6 19	5 94 8	8 11	7 40 8
5 4	4 52 4	6 20	5 98 5	8 12	7 44 5
5 5	4 56 0	6 21	6 02 1	8 13	7 48 1
5 6	4 59 6	6 22	6 05 8	8 14	7 51 8
5 7	4 63 2	6 23	6 09 4	8 15	7 55 3
5 8	4 66 8	7 00	6 13 1	8 16	7 59 1
5 9	4 70 4	7 1	6 16 7	8 17	7 62 8
5 10	4 74 1	7 2	6 20 4	8 18	7 66 4
5 11	4 77 7	7 3	6 23 1	8 19	7 70 0
5 12	4 81 3	7 4	6 27 7	8 20	7 73 7
5 13	4 84 0	7 5	6 31 3	8 21	7 77 8
5 14	4 88 6	7 6	6 35 0	8 22	7 81 0
5 15	4 92 2	7 7	6 38 6	8 23	7 84 6
5 16	4 95 9	7 8	6 42 3	9 00	7 88 3
5 17	4 99 4	7 9	6 45 9	9 1	7 91 9
5 18	5 02 1	7 10	6 49 6	9 2	7 95 6
5 29	5 06 7	7 11	6 53 2	9 3	7 99 3
5 20	5 10 4	7 12	6 56 9	9 4	8 02 9
5 21	5 14 0	7 13	6 60 5	9 5	8 06 5
5 22	5 17 5	7 14	6 64 2	9 6	8 10 2
5 23	5 21 1	7 15	6 67 7	9 7	8 13 8
6 00	5 25 6	7 16	6 71 5	9 8	8 17 5
6 1	5 29 1	7 17	6 75 2	9 9	8 21 1
6 2	5 32 8	7 18	6 78 8	9 10	8 24 8
6 3	5 36 5	7 19	6 82 4	9 11	8 28 4
6 4	5 40 1	7 20	6 86 1	9 12	8 32 1

# A TABLE

*Shewing the value of English and Portuguese Gold Coins, (of their present standard) reduced to an equivalent value in dollars, cents, and mills. Calculated for the use of the several Banks and Counting-houses in the United States.*

Pt. gr.	\$ C. M.	Pt. gr.	\$ C. M.	Pt. gr.	\$ C. M.
0 1	0 3 7	1 12	1 33 4	2 23	2 63 0
0 2	0 7 4	1 13	1 37 1	3 0	2 66 7
0 3	0 11 1	1 14	1 40 8	3 1	2 70 5
0 4	0 14 8	1 15	1 44 5	3 2	2 74 2
0 5	0 18 5	1 16	1 58 2	3 3	2 78 0
0 6	0 22 2	1 17	1 52 0	3 4	2 81 7
0 7	0 25 9	1 18	1 55 7	3 5	2 85 4
0 8	0 29 6	1 19	1 59 4	3 6	2 89 1
0 9	0 33 3	1 20	1 63 0	3 7	2 92 8
0 10	0 37 0	1 21	1 66 7	3 8	2 96 6
0 11	0 40 7	1 22	1 70 5	3 9	3 00 1
0 12	0 44 4	1 23	1 74 2	3 10	3 03 8
0 13	0 48 1	2 00	1 78 0	3 11	3 07 5
0 14	0 51 8	2 1	1 81 7	3 12	3 11 2
0 15	0 55 5	2 2	1 85 4	3 13	3 14 9
0 16	0 59 2	2 3	1 89 1	3 14	3 18 6
0 17	0 63 0	2 4	1 92 8	3 15	3 22 3
0 18	0 66 7	2 5	1 96 5	3 16	3 26 0
0 19	0 70 4	2 6	2 00 1	3 17	3 29 7
0 20	0 74 0	2 7	2 03 8	3 18	3 33 4
0 21	0 77 7	2 8	2 07 5	3 19	3 37 2
0 22	0 81 5	2 9	2 11 2	3 20	3 40 9
0 23	0 85 2	2 10	2 14 9	3 21	3 44 7
1 00	0 89 0	2 11	2 18 6	3 22	3 48 4
1 1	0 92 7	2 12	2 22 3	3 23	3 52 2
1 2	0 96 4	2 13	2 26 0	4 0	3 56 0
1 3	1 00 1	2 14	2 29 7	4 1	3 59 7
1 4	1 03 8	2 15	2 33 4	4 2	3 63 4
1 5	1 07 5	2 16	2 37 1	4 3	3 67 0
1 6	1 11 2	2 17	2 40 8	4 4	3 70 7
1 7	1 14 9	2 18	2 44 5	4 5	3 74 4
1 8	1 18 6	2 19	2 48 2	4 6	3 78 0
1 9	1 22 3	2 20	2 52 0	4 7	3 81 7
1 10	1 26 0	2 21	2 55 7	4 8	3 85 4
1 11	1 29 7	2 22	2 59 4	4 9	3 89 1

Pt. gr.	S. C. M.	Pt. gr.	S. C. M.	Pt. gr.	S. C. M.
4 10	3 92 8	6 3	5 44 5	7 20	6 96 5
4 11	3 96 5	6 4	5 48 2	7 21	7 00 1
4 12	4 00 1	6 5	5 52 0	7 22	7 03 8
4 13	4 03 8	6 6	5 55 7	7 23	7 07 5
4 14	4 07 5	6 7	5 59 4	8 00	7 11 1
4 15	4 11 2	6 8	5 63 0	8 1	7 14 9
4 16	4 14 9	6 9	5 66 7	8 2	7 18 6
4 17	4 18 6	6 10	5 70 5	8 3	7 22 3
4 18	4 22 3	6 11	5 74 2	8 4	7 26 0
4 19	4 26 0	6 12	5 78 0	8 5	7 29 7
4 20	4 29 7	6 13	5 81 7	8 6	7 33 3
4 21	4 33 4	6 14	5 85 4	8 7	7 37 2
4 22	4 37 2	6 15	5 89 1	8 8	7 40 9
4 23	4 40 9	6 16	5 92 8	8 9	7 44 7
5 00	4 44 5	6 17	5 96 5	8 10	7 48 4
5 1	4 48 4	6 18	6 00 1	8 11	7 52 0
5 2	4 52 2	6 19	6 03 8	8 12	7 55 7
5 3	4 56 0	6 20	6 07 5	8 13	7 59 4
5 4	4 59 7	6 21	6 11 2	8 14	7 63 0
5 5	4 63 4	6 22	6 14 9	8 15	7 66 7
5 6	4 67 0	6 23	6 18 6	8 16	7 70 3
5 7	4 70 7	7 00	6 22 3	8 17	7 74 2
5 8	4 94 4	7 1	6 26 0	8 18	7 78 0
5 9	4 98 0	7 2	6 29 7	8 19	7 81 7
5 10	4 81 7	7 3	6 33 3	8 20	7 85 4
5 11	4 85 4	7 4	6 37 2	8 21	7 89 1
5 12	4 89 1	7 5	6 40 9	8 22	7 92 8
5 13	4 92 8	7 6	6 44 7	8 23	7 96 5
5 14	4 96 5	7 7	6 48 4	8 00	8 00 0
5 15	5 00 1	7 8	6 52 0	9 1	8 03 7
5 16	5 03 8	7 9	6 55 7	9 2	8 07 5
5 17	5 07 5	7 10	6 59 4	9 3	8 11 2
5 18	5 11 2	7 11	6 63 0	9 4	8 14 9
5 19	5 14 9	7 12	6 66 7	9 5	8 18 6
5 20	5 18 6	7 13	6 70 5	9 6	8 22 3
5 21	5 22 3	7 14	6 74 2	9 7	8 26 0
5 22	5 26 0	7 15	6 78 0	9 8	8 29 7
5 23	5 29 7	7 16	6 81 7	9 9	8 33 5
6 00	5 33 3	7 17	6 85 4	9 10	8 37 2
6 1	5 37 2	7 18	6 89 1	9 11	8 40 9
6 2	5 40 9	7 19	6 92 8	9 12	8 44 7

# A TABLE

Shewing the weights of the Coins of the United States.

## STANDARD GOLD.

	Pwt.	Gr.
Eagles, - - - -	11	6
Half Eagles, - - - -	5	15
Quarter Eagles, - - - -	2	19 $\frac{1}{2}$

## STANDARD SILVER.

Dollars, - - - -	17	8
Half Dollars, - - - -	8	16
Quarter Dollars, - - - -	4	8
Dimes, - - - -	1	17 $\frac{3}{4}$
Half Dimes, - - - -	0	20 $\frac{1}{2}$

## COPPER.

Cents, - - - -	8	16
Half Cents, - - - -	4	8

*Note.*—The standard for gold coin is 11 parts pure gold to 1 part alloy; the alloy to consist of silver and copper. The standard for silver coin is 1485 parts fine, to 179 parts alloy; the alloy to be wholly of copper.

# A TABLE

Shewing the weight of several pieces of foreign gold coin, their value in dollars, cents and mills.

	Pwt.	Gr.	¢	C.	M.
Moidore	6	22	6	14	8
Doubloon	17	00	14	66	6
Pistole	4	3	3	61	3
2 Pistoles	8	6	7	22	6
4 Pistoles	16	12	14	45	2
French Guinea	5	6	4	59	8
Half do.	2	15	2	29	9
English Guinea	5	6	4	66	6
Half do.	2	15	2	33	3
Single Johannes	9	0	8	0	0
Double Johannes	18	0	16	0	0

**A TABLE**

Shewing the different weights of the Coins of pure and standard Gold and Silver, calculated according to the true value thereof, in dollars and cents.

**GOLD.**

Pure	Standard	Value.
Pwt. Gr.	Pwt. Gr.	\$ C.
10 7 $\frac{1}{2}$	11 6	10 0
5 3 $\frac{1}{2}$	5 15	5 0
2 13 $\frac{1}{2}$	2 19 $\frac{1}{2}$	2 50

**SILVER.**

15 11 $\frac{1}{2}$	17 8	1 0
7 17 $\frac{1}{2}$	8 16	0 50
3 20 $\frac{3}{8}$	4 8	0 25
1 18 $\frac{1}{4}$	1 17 $\frac{3}{4}$	0 10
0 18 $\frac{9}{16}$	0 20 $\frac{3}{4}$	0 5

**A DECIMAL TABLE,**

Shewing the measures of some of the trading cities in Europe, compared with the American yard.

<i>Ell is equal to</i>	<i>American Yard.</i>
1 London and Dublin	1, 25
1 Amsterdam	0, 75
1 Brabant	0, 76
1 Paris	1, 50
1 Hamburg	0, 62
1 Dantzic	0, 66
1 Stockholm	0, 65
1 Bergen	0, 68
1 Geneva	1, 25
1 Frankfort	0, 62
1 Bern	0, 62

<i>Ell is equal to</i>	<i>American Yard.</i>
1 Oznaburg	1, 28
1 Leipsic	0, 62
1 cane Genoa	2, 45
1 Rome	2, 27
1 Toulouse	2, 00
1 Marseilles	2, 14
1 varas Lisbon	1, 23
1 Cadiz	0, 93
• 1 cavidos Lisbon	0, 75
1 brasses Milan	0, 58
1 Leghorn	0, 64
1 Venice	0, 73

*Note.*—This table is calculated for the use of factors and agents.—For an explanation consult the key.

## TABLES

Of Hebrew Measures, Weights and computation of Money reduced to the standard of the United States.

### LENGTH.

<i>Hebrew.</i>	<i>Mile</i>	<i>R.</i>	<i>F.</i>	<i>In.</i>
1 mile is equal to	1	122	3	0
1 furlong	0	35	4	6
Ezekiel's reed	0	0	10	11 $\frac{41}{128}$
fathom	0	0	7	3 $\frac{62}{128}$
hand's breadth	0	0	0	3 $\frac{171}{256}$
cubit	0	0	1	9 $\frac{111}{128}$

### WINE MEASURE.

	<i>Gal.</i>	<i>Qts.</i>	<i>Pts.</i>
1 homer is equal to	75	2	1
1 ephah or bath	7	2	0
1 hin	1	1	0
1 omer	0	3	0
1 cab	0	1	1
1 log	0	0	0 $\frac{1}{2}$



## WEIGHTS.

	lb	Oz.	Pwt.	Gr.
1 talent of gold is equal to	114	0	15	0
1 talent of silver	114	0	15	0
1 shekel	0	0	9	3
1 bekah	0	0	4	13 $\frac{1}{2}$
1 gerah	0	0	0	101 $\frac{1}{2}$
* Ezekiel's daily allowance of meat	0	9	2	12

\* *Ezekiel*, iv. 10.

## MONEY.

	\$	C.	M.
1 mite is equal to	0	0	0 $\frac{3}{4}$
1 penny	0	9	7 $\frac{1}{2}$
1 gerah	0	1	3 $\frac{1}{2}$
1 bekah	0	19	2 $\frac{1}{2}$
1 shekel	0	39	5 $\frac{1}{2}$
1 talent of silver	1178	50	0
1 talent of gold	16,919	17	0
†Pul's tribute of Menahem	1,178,500	00	0
Menahem's tax on every man,	19	77	5

† 2 *Kings*, xv. 19, 20.

## OLD AND NEW TESTAMENT DISSECTED.

Books in the Old Testament	39
Chapters	927
Verses	23,214
Words	592,439
Letters	2,728,100

Books in the New Testament	27
Chapters	260
Verses	7,959
Words	181,253
Letters	838,380

The Apocrypha hath 183 chapters, 6081 verses, and 152,185 words.

The middle chapter and the least in the Bible, is Psalm 117.

The middle verse is the 8th of the 118th Psalm.

The word *and* occurs in the Old Testament 35,543 times, and in the New Testament 10,684 times.

The word *Jehovah* occurs 6855 times.

The middle book of the Old Testament is Proverbs; the middle chapter is Job 29; the middle verse is the 2d of Chronicles, 20th chapter, between the 17th and 18th verses. The least verse is 1st Chronicles, 1st chapter, and 1st verse.

The middle book in the New Testament is the 2d of Thessalonians.

The middle chapter is between the 13th and 14th of Romans.

The middle verse is Acts, 17th chapter, 17th verse.

The least verse is John, 11th chapter, 35th verse.

The 21st verse of the 7th chapter of Ezra hath all the letters of the alphabet except J.

The 19th chapter of the 2d of Kings and the 37th of Isaiah are both alike.



# A CALENDAR, &c.

## A TABLE

Shewing the number of days from any day in any month, to the same day in any other month.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
January,	365	334	306	275	245	214	184	153	122	92	61	31
February,	31	365	337	301	276	245	215	181	153	123	92	62
March,	59	28	365	334	304	273	243	212	181	151	120	90
April,	90	59	31	365	335	304	274	243	212	182	151	121
May,	120	89	61	30	365	334	304	273	242	212	181	151
June,	151	120	92	61	31	365	335	304	273	243	212	182
July,	181	150	122	91	61	30	365	334	303	273	242	212
August,	214	181	153	122	92	61	31	365	334	304	273	243
September,	243	212	184	153	123	92	62	31	365	335	304	274
October,	273	242	214	183	153	122	92	61	30	365	334	304
November,	304	273	245	214	184	153	122	92	61	31	365	335
December,	334	303	275	244	214	183	153	122	91	61	30	365

## 1 Mo. JANUARY. 31 Days.

*Solar calculations, and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. st.	E. T.	R. ☉
Day	D.	H. M.	H. M.	H. M.	H. M.	M. S.	H. M.
1	A	7 27 4	33 9	06 14	54	3 40	18 44
2	B	7 27 4	33 9	06 14	54	4 09	18 49
3	C	7 26 4	34 9	08 14	52	4 37	18 53
4	D	7 26 4	34 9	08 14	52	5 04	18 48
5	E	7 25 4	35 9	10 14	50	5 32	19 02
6	F	7 25 4	35 9	10 14	50	5 59	19 06
7	G	7 24 4	36 9	12 14	48	6 25	19 10
8	A	7 23 4	37 9	14 14	46	6 57	19 15
9	B	7 23 4	37 9	14 14	46	7 17	19 20
10	C	7 22 4	38 9	16 14	44	7 42	19 24
11	D	7 21 4	39 9	18 14	42	8 06	19 28
12	E	7 20 4	40 9	20 14	40	8 30	19 32
13	F	7 19 4	41 9	22 14	38	8 53	19 37
14	G	7 18 4	42 9	24 14	36	9 16	19 41
15	A	7 17 4	43 9	26 14	34	9 38	19 45
16	B	7 17 4	43 9	26 14	34	9 59	19 50
17	C	7 16 4	44 9	28 14	32	10 19	19 54
18	D	7 15 4	45 9	30 14	30	10 39	19 59
19	E	7 14 4	46 9	32 14	28	10 58	20 03
20	F	7 13 4	47 9	34 14	26	11 10	20 07
21	G	7 12 4	48 9	36 14	24	11 34	20 11
22	A	7 11 4	49 9	38 14	22	11 51	20 15
23	B	7 10 4	50 9	40 14	20	12 06	20 19
24	C	7 09 4	51 9	42 14	18	12 22	20 24
25	D	7 08 4	52 9	44 14	16	12 36	20 28
26	E	7 07 4	53 9	46 14	14	12 49	20 32
27	F	7 06 4	54 9	48 14	12	13 02	20 36
28	G	7 05 4	55 9	50 14	10	13 14	20 41
29	A	7 04 4	56 9	52 14	08	13 25	20 45
30	B	7 03 4	57 9	54 14	06	13 36	20 49
31	C	7 02 4	58 9	56 14	04	13 45	20 53

I Mo. JANUARY. 31 Days.

*Lunar calculations and other phenomena  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. D
1809	1	A	14	5	15
1810	2	G	25	6	5
1811	3	F	6	7	24
1812	B	E	17	8	13
1813	1	C	28	9	2
1814	2	B	9	10	21
1815	3	A	20	11	10
1816	B	G	1	12	29
1817	1	E	12	13	17
1818	2	D	23	14	6
1819	3	C	4	15	24
1820	B	B	15	16	15
1821	1	G	26	17	4
1822	2	F	7	18	23
1823	3	E	18	19	11
1824	B	D	0	1	29
1825	1	B	11	2	19
1826	2	A	22	3	8
1827	3	G	3	4	26
1828	B	F	14	5	15

2 Mo. FEBRUARY. 28 Days.

*Solar calculations, and other phenomena  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day	D.	H. M.	H. M.	H. M.	H. M.	add. M. S.	H. M.
1	D	7 01	4 59	9 58	14 02	13 54	20 57
2	E	7 00	5 00	10 00	14 00	14 02	21 01
3	F	6 59	5 01	10 02	13 58	14 09	21 05
4	G	6 58	5 02	10 04	13 56	14 16	21 09
5	A	6 57	5 03	10 06	13 54	14 21	21 13
6	B	6 56	5 04	10 08	13 52	14 26	21 17
7	C	6 55	5 05	10 10	13 50	14 30	21 21
8	D	6 55	5 05	10 10	13 50	14 33	21 25
9	E	6 54	5 06	10 12	13 48	14 35	21 29
10	F	6 53	5 07	10 14	13 46	14 37	21 33
11	G	6 52	5 08	10 16	13 44	14 37	21 37
12	A	6 50	5 10	10 20	13 40	14 37	21 41
13	B	6 49	5 11	10 22	13 38	14 36	21 45
14	C	6 48	5 12	10 24	13 36	14 33	21 49
15	D	6 47	5 13	10 26	13 34	14 32	21 53
16	E	6 46	5 14	10 28	13 32	14 29	21 57
17	F	6 44	5 16	10 32	13 28	14 25	22 00
18	G	6 43	5 17	10 34	13 26	14 21	22 03
19	A	6 41	5 19	10 38	13 22	14 15	22 07
20	B	6 40	5 20	10 40	13 20	14 09	22 12
21	C	6 39	5 21	10 42	13 18	14 00	22 15
22	D	6 37	5 23	10 46	13 14	13 55	22 19
23	E	6 35	5 25	10 50	13 10	13 47	22 23
24	F	6 34	5 26	10 52	13 08	13 38	22 26
25	G	6 32	5 28	10 56	13 04	13 29	22 30
26	A	6 30	5 30	11 00	13 00	13 19	22 33
27	B	6 29	5 31	11 02	12 58	13 09	22 37
28	C	6 27	5 33	11 06	12 54	12 59	22 40
29	D	6 26	5 34	11 08	12 52	12 46	22 43

2 Mo.

FEBRUARY.

28 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C
1809	1	A	14	5	14
1810	2	G	25	6	3
1811	3	F	6	7	22
1812	B	E	17	8	12
1813	1	C	28	9	1
1814	2	B	9	10	19
1815	3	A	20	11	8
1816	B	G	1	12	27
1817	1	E	12	13	15
1818	2	D	23	14	4
1819	3	C	4	15	23
1820	B	B	15	16	13
1821	1	G	26	17	2
1822	2	F	7	18	21
1823	3	E	18	19	9
1824	B	D	0	1	28
1825	1	B	11	2	18
1826	2	A	22	3	7
1827	3	G	3	4	24
1828	B	F	14	5	14

*Note.* Every year standing against the letter B. is Bissextile or Leap year, in which years the 29th day of this month must be counted, but in no other year.



3 Mo.

MARCH.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	add. M. S.	H. M.
1	D	5 25	5 35	11 10	12 50	12 34	22 46
2	E	5 24	5 36	11 12	12 48	12 22	22 50
3	F	5 23	5 37	11 14	12 46	12 09	22 54
4	G	5 22	5 38	11 16	12 44	11 58	22 58
5	A	5 20	5 40	11 20	12 40	11 45	23 01
6	B	5 19	5 41	11 22	12 38	11 30	23 05
7	C	5 18	5 42	11 24	12 36	11 21	23 09
8	D	5 17	5 43	11 26	12 34	11 13	23 12
9	E	5 15	5 45	11 30	12 30	10 58	23 16
10	F	5 14	5 46	11 32	12 28	10 43	23 20
11	G	5 12	5 48	11 36	12 24	10 27	23 23
12	A	5 11	5 49	11 38	12 22	10 11	23 27
13	B	5 10	5 50	11 40	12 20	9 55	23 31
14	C	5 08	5 52	11 44	12 16	9 38	23 34
15	D	5 07	5 53	11 46	12 14	9 21	23 38
16	E	5 06	5 54	11 48	12 12	9 04	23 42
17	F	5 04	5 56	11 52	12 08	8 46	23 45
18	G	5 02	5 58	11 56	12 04	8 29	23 49
19	A	5 01	5 59	11 58	12 02	8 11	23 53
20	B	5 00	6 00	12 00	12 00	7 53	23 56
21	C	5 58	6 02	12 04	11 56	7 34	23 59
22	D	5 56	6 04	12 08	11 52	7 16	0 4
23	E	5 54	6 06	12 12	11 48	6 57	0 7
24	F	5 52	6 08	12 16	11 44	6 39	0 11
25	G	5 51	6 09	12 18	11 42	6 20	0 14
26	A	5 49	6 11	12 22	11 38	6 02	0 18
27	B	5 48	6 12	12 24	11 36	5 43	0 22
28	C	5 47	6 13	12 26	11 34	5 24	0 25
29	D	5 46	6 14	12 28	11 32	5 05	0 29
30	E	5 45	6 15	12 30	11 30	4 47	0 33
31	F	5 44	6 16	12 32	11 28	4 28	0 36

3 Mo. MARCH. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C.
1809	1	A	14	5	15
1810	2	G	25	6	5
1811	3	F	6	7	24
1812	B	D	17	8	12
1813	1	C	28	9	2
1814	2	B	9	10	21
1815	3	A	20	11	10
1816	B	F	1	12	29
1817	1	E	12	13	17
1818	2	D	23	14	6
1819	3	C	4	15	25
1820	B	A	15	16	14
1821	1	G	26	17	4
1822	2	F	7	18	23
1823	3	E	18	19	10
1824	B	C	0	1	29
1825	1	B	11	2	19
1826	2	A	22	3	7
1827	3	G	3	4	26
1828	B	E	14	5	15

4 Mo.

APRIL

30 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☽ S.	L. day	L. nt.	E. T.	R.	☽
Day.	D.	H. M.	H. M.	H. M.	H. M.	M. S.	H. M.	
1	G	5 43 6	17 12 34	11 26 4	10 0 40			
2	A	5 42 6	18 12 36	11 24 3	0 43			
3	B	5 40 6	20 12 40	11 20 3	0 47			
4	C	5 39 6	21 12 42	11 18 3	0 51			
5	D	5 38 6	22 12 44	11 16 2	0 54			
6	E	5 36 6	24 12 48	11 12 2	0 58			
7	F	5 35 6	25 12 50	11 10 2	1 02			
8	G	5 34 6	26 12 52	11 08 2	1 05			
9	A	5 32 6	28 12 56	11 04 1	1 09			
10	B	5 30 6	30 13 00	11 00 1	1 13			
11	C	5 29 6	31 13 02	10 58 1	1 16			
12	D	5 28 6	32 13 04	10 56 0	1 20			
13	E	5 27 6	33 13 06	10 54 0	1 24			
14	F	5 25 6	35 13 10	10 50 0	1 27			
15	G	5 24 6	36 13 12	10 48 0	1 31			
16	A	5 23 6	37 13 14	10 46 sub.	1 35			
17	B	5 22 6	38 13 16	10 44 0	1 38			
18	C	5 21 6	39 13 18	10 42 0	1 42			
19	D	5 20 6	40 13 20	10 40 0	1 46			
20	E	5 18 6	42 13 24	10 36 1	1 50			
21	F	5 17 6	43 13 26	10 34 1	1 53			
22	G	5 16 6	44 13 28	10 32 1	1 57			
23	A	5 15 6	45 13 30	10 30 1	2 01			
24	B	5 13 6	47 13 34	10 26 1	2 04			
25	C	5 12 6	48 13 36	10 24 2	2 08			
26	D	5 11 6	49 13 38	10 22 2	2 12			
27	E	5 09 6	51 13 42	10 18 2	2 16			
28	F	5 08 6	52 13 44	10 16 2	2 20			
29	G	5 07 6	53 13 46	10 14 2	2 23			
30	A	5 06 6	54 13 48	10 12 2	2 27			

4 Mo.

APRIL

30 Days.

*Lunar calculations, and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N.
1809	1	A	12	5	14
1810	2	G	25	6	3
1811	2	F	8	7	23
1812	B	D	17	8	11
1813	1	C	28	9	1, 30
1814	2	B	9	10	19
1815	3	A	20	11	9
1816	B	F	1	12	27
1817	1	E	12	13	16
1818	2	D	23	14	6
1819	3	C	4	15	23
1820	B	A	15	16	13
1821	1	G	25	17	3
1822	2	F	7	18	21
1823	3	E	18	19	9
1824	B	C	0	1	28
1825	1	B	11	2	18
1826	2	A	22	3	6
1827	3	G	3	4	23
1828	B	E	14	5	14

5 Mo.

MAY.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		⊙ R.	⊙ S.	L. day	L. nt.	E. T.	R. ⊙
Day.	D.	H. M.	H. M.	H. M.	H. M.	sub. M. S.	H. M.
1	B	5 05	6 55	13 50	10 10	3 01	2 31
2	C	5 03	6 57	13 54	10 06	3 09	2 35
3	D	5 01	6 59	13 58	10 02	3 15	2 39
4	E	5 00	7 00	14 00	10 00	3 23	2 42
5	F	4 59	7 01	14 02	9 58	3 27	2 46
6	G	4 58	7 02	14 04	9 56	3 32	2 50
7	A	4 57	7 03	14 06	9 54	3 39	2 54
8	B	4 56	7 04	14 08	9 52	3 42	2 58
9	C	4 54	7 06	14 12	9 48	3 46	3 02
10	D	4 53	7 07	14 14	9 46	3 50	3 06
11	E	4 52	7 08	14 16	9 44	3 53	3 09
12	F	4 51	7 09	14 18	9 42	3 54	3 13
13	G	4 50	7 10	14 20	9 40	3 55	3 17
14	A	4 49	7 11	14 22	9 38	3 56	3 21
15	B	4 48	7 12	14 24	9 36	3 57	3 25
16	C	4 47	7 13	14 26	9 34	3 58	3 29
17	D	4 46	7 14	14 28	9 32	3 57	3 33
18	E	4 45	7 15	14 30	9 30	3 56	3 37
19	F	4 44	7 16	14 32	9 28	3 54	3 41
20	G	4 42	7 18	14 36	9 24	3 52	3 45
21	A	4 41	7 19	14 38	9 22	3 49	3 49
22	B	4 41	7 19	14 38	9 22	3 46	3 53
23	C	4 40	7 20	14 40	9 20	3 42	3 57
24	D	4 39	7 21	14 42	9 18	3 38	4 01
25	E	4 38	7 22	14 44	9 16	3 33	4 05
26	F	4 38	7 22	14 44	9 16	3 28	4 09
27	G	4 37	7 23	14 46	9 14	3 22	4 13
28	A	4 37	7 23	14 46	9 14	3 15	4 17
29	B	4 36	7 24	14 48	9 12	3 08	4 21
30	C	4 35	7 25	14 50	9 10	3 00	4 25
31	D	4 35	7 25	14 50	9 10	2 52	4 29

5 Mo.

MAY.

31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. D
1809	1	A	14	5	14
1810	2	G	25	6	3
1811	3	F	6	7	22
1812	B	D	17	8	10
1813	1	C	28	9	29
1814	2	B	9	10	19
1815	3	A	20	11	8
1816	B	F	1	12	26
1817	1	E	12	13	15
1818	2	D	23	14	4
1819	3	C	4	15	23
1820	B	A	15	16	12
1821	1	G	26	17	1, 31
1822	2	F	7	18	20
1823	3	E	18	19	8
1824	B	C	0	1	27
1825	1	B	11	12	17
1826	2	A	22	3	5
1827	3	G	3	4	24
1828	B	E	14	5	13

6 Mo.		JUNE.				30 Days.			
<i>Solar calculations and other phenomena, calculated to the mean term of 20 years.</i>									
		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ⑦		
Day	D.	H. M.	H. M.	H. M.	H. M.	sub. M. S.	H. M.		
1	E	4 35	7 25	14 50	9 10	2 45	4 33		
2	F	4 35	7 25	14 50	9 10	2 34	4 38		
3	G	4 34	7 26	14 52	9 08	2 25	4 42		
4	A	4 34	7 26	14 52	9 08	2 15	4 46		
5	B	4 34	7 26	14 52	9 08	2 07	4 50		
6	C	4 34	7 26	14 52	9 08	1 57	4 54		
7	D	4 33	7 27	14 54	9 06	1 45	4 58		
8	E	4 33	7 27	14 54	9 06	1 34	5 02		
9	F	4 33	7 27	14 54	9 06	1 22	5 06		
10	G	4 33	7 27	14 54	9 06	1 10	5 10		
11	A	4 33	7 27	14 54	9 06	0 59	5 15		
12	B	4 32	7 28	14 56	9 04	0 46	5 19		
13	C	4 32	7 28	14 56	9 04	0 35	5 23		
14	D	4 32	7 28	14 56	9 04	0 24	5 27		
15	E	4 32	7 28	14 56	9 04	0 09	5 31		
16	F	4 31	7 29	14 58	9 02	add 2	5 35		
17	G	4 31	7 29	14 58	9 02	0 14	5 39		
18	A	4 31	7 29	14 58	9 02	0 26	5 44		
19	B	4 31	7 29	14 58	9 02	0 40	5 48		
20	C	4 31	7 29	14 58	9 02	0 53	5 52		
21	D	4 31	7 29	14 58	9 02	1 06	5 56		
22	E	4 31	7 29	14 58	9 02	1 19	6 00		
23	F	4 31	7 29	14 58	9 02	1 32	6 04		
24	G	4 31	7 29	14 58	9 02	1 43	6 09		
25	A	4 31	7 29	14 58	9 02	1 57	6 13		
26	B	4 32	7 28	14 56	9 04	2 10	6 17		
27	C	4 32	7 28	14 56	9 04	2 23	6 21		
28	D	4 32	7 28	14 56	9 04	2 35	6 25		
29	E	4 32	7 28	14 56	9 04	2 47	6 29		
30	F	4 32	7 28	14 56	9 04	3 00	6 33		

6 Mo.

JUNE.

30 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N.
1809	1	A	14	5	12
1810	2	G	25	6	2
1811	3	F	6	7	21
1812	B	D	17	8	9
1813	1	C	28	9	28
1814	2	B	9	10	17
1815	3	A	20	11	7
1816	B	F	1	12	25
1817	1	E	12	13	14
1818	2	D	23	14	3
1819	3	C	4	15	22
1820	B	A	15	16	11
1821	1	G	26	17	29
1822	2	F	7	18	19
1823	3	E	18	19	6
1824	B	C	0	1	25
1825	1	B	11	2	16
1826	2	A	22	3	4
1827	3	G	3	4	23
1828	B	E	14	5	12



7 Mo.

JULY.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	add. M. S.	H. M.
1	G	4 32	7 28	14 56	9 04	3 10	6 38
2	A	4 32	7 28	14 56	9 04	3 21	6 42
3	B	4 32	7 28	14 56	9 04	3 33	6 46
4	C	4 33	7 27	14 54	9 06	3 45	6 50
5	D	4 33	7 27	14 54	9 06	3 56	6 54
6	E	4 33	7 27	14 54	2 06	4 06	6 58
7	F	4 34	7 26	14 52	9 08	4 17	7 02
8	G	4 34	7 26	14 52	9 08	4 27	7 07
9	A	4 35	7 25	14 50	9 10	4 37	7 11
10	B	4 36	7 24	14 48	9 12	4 46	7 15
11	C	4 37	7 23	14 46	9 14	4 55	7 19
12	D	4 37	7 23	14 46	9 14	5 03	7 23
13	E	4 38	7 22	14 44	9 16	5 10	7 27
14	F	4 39	7 21	14 42	9 18	5 18	7 31
15	G	4 39	7 21	14 42	9 18	5 24	7 35
16	A	4 40	7 20	14 40	9 20	5 30	7 39
17	B	4 41	7 19	14 38	9 22	5 37	7 43
18	C	4 41	7 19	14 38	9 22	5 42	7 47
19	D	4 42	7 18	14 36	9 24	5 47	7 51
20	E	4 43	7 17	14 34	9 26	5 52	7 55
21	F	4 43	7 17	14 34	9 26	5 55	7 59
22	G	4 54	7 16	14 32	9 28	5 59	8 03
23	A	4 45	7 15	14 30	9 30	6 00	8 07
24	B	4 46	7 14	14 28	9 32	6 03	8 11
25	C	4 47	7 13	14 26	9 34	6 05	8 15
26	D	4 48	7 12	14 24	9 36	6 05	8 19
27	E	4 49	7 11	14 22	9 38	6 04	8 23
28	F	4 50	7 10	14 20	9 40	6 04	8 27
29	G	4 51	7 09	14 18	9 42	6 03	8 31
30	A	4 52	7 08	14 16	9 44	6 02	8 35
31	B	4 53	7 07	14 14	9 46	6 00	8 39

7 Mo.	JULY.	31 Days.			
<i>Lunar calculations and other phenomena, calculated for the term of 20 years.</i>					
Y.	B.	D.	E.	G.	N. D
1809	1	A	14	5	12
1810	2	G	25	6	1, 30
1811	3	F	6	7	20
1812	B	D	17	8	8
1813	1	C	28	9	27
1814	2	B	9	10	17
1815	3	A	20	11	6
1816	B	F	1	12	24
1817	1	E	12	13	13
1818	2	D	23	14	2
1819	3	C	4	15	21
1820	B	A	15	16	10
1821	1	G	26	17	29
1822	2	F	7	18	18
1823	3	E	18	19	6
1824	B	C	0	1	25
1825	1	B	11	2	15
1826	2	A	22	3	3
1827	3	G	3	4	22
1828	B	E	14	5	12

R

8 Mo.

AUGUST.

31 Days.

*Solar calculations and other phenomena  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	add. M. S.	H. M.
1	C	4 54	7 06	14 12	9 48	5 58	8 43
2	D	4 55	7 06	14 10	9 50	5 54	8 47
3	E	4 56	7 04	14 08	9 52	5 50	8 51
4	F	4 57	7 03	14 06	9 54	5 46	8 55
5	G	4 58	7 02	14 04	9 56	5 42	8 59
6	A	4 59	7 01	14 03	9 58	5 38	9 03
7	B	5 00	7 00	14 00	10 00	5 32	9 06
8	C	5 01	6 59	13 58	10 02	5 24	9 09
9	D	5 03	6 57	13 54	10 06	5 17	9 13
10	E	5 05	6 55	13 50	10 10	5 08	9 17
11	F	5 06	6 54	13 48	10 12	4 59	9 21
12	G	5 07	6 53	13 46	10 14	4 56	9 24
13	A	5 08	6 52	13 44	10 16	4 40	9 28
14	B	5 10	6 50	13 40	10 20	4 30	9 32
15	C	5 11	6 49	13 38	10 22	4 19	9 37
16	D	5 12	6 48	13 36	10 24	4 07	9 40
17	E	5 14	6 46	13 32	10 28	3 56	9 44
18	F	5 15	6 45	13 30	10 30	3 44	9 48
19	G	5 16	6 44	13 28	10 32	3 31	9 52
20	A	5 17	6 43	13 26	10 34	3 16	9 56
21	B	5 18	6 42	13 24	10 36	3 03	9 59
22	C	5 19	6 41	13 22	10 38	2 47	10 03
23	D	5 20	6 40	13 20	10 40	2 32	10 07
24	E	5 22	6 38	13 16	10 44	2 17	10 11
25	F	5 23	6 37	13 14	10 46	2 03	10 14
26	G	5 24	6 36	13 12	10 48	1 45	10 18
27	A	5 26	6 34	13 08	10 52	1 27	10 22
28	B	5 27	6 33	13 06	10 54	1 12	10 26
29	C	5 28	6 32	13 04	10 56	0 55	10 30
30	D	5 30	6 30	13 00	10 00	0 37	10 35
31	E	5 31	6 29	12 58	11 02	0 20	10 37

8 Mo. AUGUST. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C
1809	1	A	14	5	11
1810	2	G	25	6	29
1811	3	F	6	7	19
1812	B	D	17	8	7
1813	1	C	28	9	26
1814	2	B	9	10	15
1815	3	A	20	11	5
1816	B	F	1	12	23
1817	1	E	12	13	11
1818	2	D	23	14	1, 30
1819	3	C	4	15	20
1820	B	A	15	16	9
1821	1	G	26	17	28
1822	2	F	7	18	17
1823	3	E	18	19	4
1824	B	C	0	1	23
1825	1	B	11	2	15
1826	2	A	22	3	1, 20
1827	3	G	3	4	20
1828	B	E	14	5	10

9 Mo. . . . . SEPTEMBER. . . . . 30 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R	☉ S	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M	H. M	H. M.	H. M.	and. M. S.	H. M.
1	F	5 32	6 28	12 56	11 04	0 02	10 40
2	G	5 33	6 27	12 54	11 06	sub. 16	10 43
3	A	5 34	6 26	12 52	11 08	0 35	10 47
4	B	5 36	6 24	12 48	11 12	0 54	10 49
5	C	5 37	6 23	12 46	11 14	1 13	10 52
6	D	5 39	6 21	12 42	11 18	1 33	10 56
7	E	5 40	6 20	12 40	11 20	1 52	11 00
8	F	5 41	6 19	12 38	11 22	2 12	11 04
9	G	5 43	6 17	12 34	11 26	2 33	11 07
10	A	5 44	6 16	12 32	11 28	2 53	11 10
11	B	5 45	6 15	12 30	11 30	3 14	11 14
12	C	5 47	6 13	12 26	11 34	3 34	11 18
13	D	5 48	6 12	12 24	11 36	3 55	11 22
14	E	5 49	6 11	12 22	11 38	4 16	11 25
15	F	5 50	6 10	12 20	11 40	4 37	11 29
16	G	5 52	6 08	12 16	11 44	4 58	11 33
17	A	5 53	6 07	12 14	11 46	5 20	11 37
18	B	5 55	6 05	12 10	11 50	5 41	11 41
19	C	5 56	6 04	12 08	11 52	6 02	11 44
20	D	5 58	6 02	12 04	11 56	6 33	11 48
21	E	5 59	6 01	12 02	11 58	6 44	11 51
22	F	6 00	6 00	12 00	12 00	7 05	11 55
23	G	6 01	5 59	11 58	12 02	7 26	11 59
24	A	6 03	5 57	11 54	12 06	7 46	12 03
25	B	6 04	5 56	11 52	12 08	8 07	12 07
26	C	6 05	5 55	11 50	12 10	8 27	12 11
27	D	6 07	5 53	11 46	12 14	8 48	12 15
28	E	6 08	5 52	11 44	12 16	9 07	12 18
29	F	6 10	5 50	11 40	12 20	9 27	12 20
30	G	6 11	5 49	11 38	12 22	9 47	12 24

9 Mo.      SEPTEMBER.      30 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. D
1809	1	A	14	5	9
1810	2	G	25	6	28
1811	3	F	6	7	17
1812	B	D	17	8	6
1813	1	C	28	9	24
1814	2	B	9	10	14
1815	3	A	20	11	3
1816	B	F	1	12	21
1817	1	E	12	13	10
1818	2	D	23	14	29
1819	3	C	4	15	18
1820	B	A	15	16	8
1821	1	G	26	17	26
1822	2	F	7	18	15
1823	3	E	18	19	3
1824	B	C	0	1	22
1825	1	B	11	2	14
1826	2	A	22	3	29
1827	3	G	3	4	19
1828	B	E	14	5	9

10 Mo.

OCTOBER.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day	D.	H. M.	H. M.	H. M.	H. M.	sub: M. S.	H. M.
1	A	6 12 5	48 11 36	12 24 10	6 12 27		
2	B	6 13 5	47 11 34	12 26 10	25 12 31		
3	C	6 14 5	46 11 32	12 28 10	44 12 34		
4	D	6 15 5	45 11 30	12 30 11	00 12 38		
5	E	6 16 5	44 11 28	12 32 11	20 12 42		
6	F	6 17 5	43 11 26	12 34 11	39 12 45		
7	G	6 19 5	41 11 22	12 38 11	56 12 49		
8	A	6 20 5	40 11 20	12 40 12	13 12 53		
9	B	6 21 5	39 11 18	12 42 12	29 12 56		
10	C	5 23 5	37 11 14	12 46 12	50 13 00		
11	D	5 24 5	36 11 12	12 48 13	11 13 03		
12	E	5 25 5	35 11 10	12 50 13	29 13 07		
13	F	5 27 5	33 11 06	12 54 13	47 13 11		
14	G	5 29 5	31 11 02	12 56 13	58 13 15		
15	A	5 30 5	30 11 00	13 00 14	11 13 18		
16	B	5 31 5	29 10 58	13 02 14	25 13 22		
17	C	5 32 5	28 10 56	13 04 14	36 13 25		
18	D	5 34 5	26 10 52	13 08 14	47 13 29		
19	E	5 35 5	25 10 50	13 10 14	58 13 33		
20	F	5 36 5	24 10 48	13 12 15	09 13 37		
21	G	5 38 5	22 10 44	13 16 15	18 13 40		
22	A	5 39 5	21 10 42	13 18 15	26 13 44		
23	B	5 40 5	20 10 40	13 20 15	34 13 48		
24	C	5 41 5	19 10 38	13 22 15	42 13 52		
25	D	5 43 5	17 10 34	13 26 15	49 13 56		
26	E	5 44 5	16 10 32	13 28 15	55 13 59		
27	F	5 45 5	15 10 30	13 30 16	01 14 03		
28	G	5 46 5	14 10 28	13 32 16	05 14 07		
29	A	5 47 5	13 10 26	13 34 16	09 14 11		
30	B	5 48 5	12 10 24	13 36 16	13 14 15		
31	C	5 49 5	11 10 22	13 38 16	14 14 19		

10 Mo. OCTOBER. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C.
1809	1	A	14	5	9
1810	2	G	25	6	28
1811	3	F	6	7	17
1812	B	D	17	8	5
1813	1	C	28	9	24
1814	2	B	9	10	13
1815	3	A	20	11	3
1816	B	F	1	12	21
1817	1	E	12	13	9
1818	2	D	23	14	28
1819	3	C	4	15	18
1820	B	A	15	16	7
1821	1	G	26	17	26
1822	2	F	7	18	15
1823	3	E	18	19	3
1824	B	C	0	1	21
1825	1	B	11	2	13
1826	2	A	22	3	28
1827	3	G	3	4	18
1828	B	E	14	5	8



10 Mo.

OCTOBER.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

Day	D.	☉ R.		☿ S.		L. day		L. nt.		E. T.		R. ☽	
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	M. S.	M. S.	H. M.	H. M.	H. M.	H. M.
1	A	6	12	5	48	11	36	12	24	10	6	12	27
2	B	6	13	5	47	11	34	12	26	10	25	12	31
3	C	6	14	5	46	11	32	12	28	10	44	12	34
4	D	6	15	5	45	11	30	12	30	11	00	12	38
5	E	6	16	5	44	11	28	12	32	11	20	12	42
6	F	6	17	5	43	11	26	12	34	11	39	12	45
7	G	6	18	5	41	11	22	12	38	11	56	12	49
8	A	6	20	5	40	11	20	12	40	12	13	12	53
9	B	6	21	5	39	11	18	12	42	12	29	12	56
10	C	5	23	5	37	11	14	12	46	12	50	13	00
11	D	5	24	5	36	11	12	12	48	13	11	13	03
12	E	5	25	5	35	11	10	12	50	13	29	13	07
13	F	5	27	5	33	11	06	12	54	13	47	13	11
14	G	5	28	5	31	11	02	12	58	13	58	13	15
15	A	5	30	5	30	11	00	13	00	14	11	13	18
16	B	5	31	5	28	10	58	13	02	14	25	13	22
17	C	5	32	5	26	10	56	13	04	14	36	13	25
18	D	5	34	5	25	10	52	13	08	14	47	13	29
19	E	5	35	5	23	10	50	13	10	14	58	13	33
20	F	5	36	5	24	10	48	13	12	15	09	13	37
21	G	5	38	5	22	10	44	13	16	15	18	13	40
22	A	5	39	5	21	10	42	13	18	15	26	13	44
23	B	5	40	5	20	10	40	13	20	15	34	13	48
24	C	5	41	5	19	10	38	13	22	15	42	13	52
25	D	5	43	5	17	10	34	13	26	15	49	13	56
26	E	5	44	5	16	10	32	13	28	15	55	13	59
27	F	5	45	5	15	10	30	13	30	16	01	14	03
28	G	5	46	5	14	10	28	13	32	16	05	14	07
29	A	5	47	5	13	10	26	13	34	16	09	14	11
30	B	5	48	5	12	10	24	13	36	16	13	14	15
31	C	5	49	5	11	10	22	13	38	16	14	14	19

10 Mo. OCTOBER. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C.
1809	1	A	14	5	9
1810	2	G	25	6	28
1811	3	F	6	7	17
1812	B	D	17	8	5
1813	1	C	28	9	24
1814	2	B	9	10	13
1815	3	A	20	11	3
1816	B	F	1	12	21
1817	1	E	12	13	9
1818	2	D	23	14	28
1819	3	C	4	15	18
1820	B	A	15	16	7
1821	1	G	26	17	26
1822	2	F	7	18	15
1823	3	E	18	19	3
1824	B	C	0	1	21
1825	1	B	11	2	13
1826	2	A	22	3	28
1827	3	G	3	4	18
1828	B	E	14	5	8

10 Mo.

OCTOBER.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	sub: M. S.	H. M.
1	A	6 12	5 48	11 36	12 24	10 6	12 27
2	B	6 13	5 47	11 34	12 26	10 25	12 31
3	C	6 14	5 46	11 32	12 28	10 44	12 34
4	D	6 15	5 45	11 30	12 30	11 00	12 38
5	E	6 16	5 44	11 28	12 32	11 20	12 42
6	F	6 17	5 43	11 26	12 34	11 39	12 45
7	G	6 19	5 41	11 22	12 38	11 56	12 49
8	A	6 20	5 40	11 20	12 40	12 13	12 53
9	B	6 21	5 39	11 18	12 42	12 29	12 56
10	C	6 23	5 37	11 14	12 46	12 50	13 00
11	D	6 24	5 36	11 12	12 48	13 11	13 03
12	E	6 25	5 35	11 10	12 50	13 29	13 07
13	F	6 27	5 33	11 06	12 54	13 47	13 11
14	G	6 29	5 31	11 02	12 58	13 58	13 15
15	A	6 30	5 30	11 00	13 00	14 11	13 18
16	B	6 31	5 29	10 58	13 02	14 25	13 22
17	C	6 32	5 28	10 56	13 04	14 36	13 25
18	D	6 34	5 26	10 52	13 08	14 47	13 29
19	E	6 33	5 27	10 50	13 10	14 58	13 38
20	F	6 30	5 24	10 48	13 12	15 09	13 37
21	G	6 38	5 22	10 44	13 16	15 18	13 40
22	A	6 39	5 21	10 42	13 18	15 26	13 44
23	B	6 40	5 20	10 40	13 20	15 34	13 48
24	C	6 41	5 19	10 38	13 22	15 42	13 52
25	D	6 42	5 17	10 34	13 26	15 49	13 56
26	E	6 44	5 16	10 32	13 28	15 55	13 59
27	F	6 45	5 15	10 30	13 30	16 01	14 03
28	G	6 46	5 14	10 28	13 32	16 05	14 07
29	A	6 47	5 13	10 26	13 34	16 09	14 11
30	B	6 48	5 12	10 24	13 36	16 13	14 15
31	C	6 49	5 11	10 22	13 38	16 14	14 19

10 Mo. OCTOBER. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C.
1809	1	A	14	5	9
1810	2	G	25	6	28
1811	3	F	6	7	17
1812	B	D	17	8	5
1813	1	C	28	9	24
1814	2	B	9	10	13
1815	3	A	20	11	3
1816	B	F	1	12	21
1817	1	E	12	13	9
1818	2	D	23	14	28
1819	3	C	4	15	18
1820	B	A	15	16	7
1821	1	G	26	17	26
1822	2	F	7	18	15
1823	3	E	18	19	3
1824	B	C	0	1	21
1825	1	B	11	2	13
1826	2	A	22	3	28
1827	3	G	3	4	18
1828	B	E	14	5	8

11 Mo. NOVEMBER. 30 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	sub. M. S.	H. M.
1	D	6 51	5 09	10 18	13 42	16 15	14 23
2	E	6 52	5 08	10 16	13 44	16 15	14 27
3	F	6 53	5 07	10 14	13 46	16 14	14 31
4	G	6 55	5 05	10 10	13 50	16 13	14 35
5	A	6 56	5 04	10 08	13 52	16 12	14 39
6	B	6 57	5 03	10 06	13 54	16 11	14 43
7	C	6 59	5 01	10 02	13 58	16 09	14 47
8	D	7 00	5 00	10 00	14 00	16 06	14 51
9	E	7 01	4 59	9 58	14 02	16 02	14 55
10	F	7 02	4 58	9 56	14 04	15 57	14 59
11	G	7 04	4 56	9 54	14 08	15 51	15 03
12	A	7 05	4 55	9 50	14 10	15 43	15 07
13	B	7 06	4 54	9 48	14 12	15 35	15 11
14	C	7 07	4 53	9 46	14 14	15 27	15 15
15	D	7 07	4 53	9 46	14 14	15 17	15 19
16	E	7 08	4 52	9 44	14 16	15 07	15 23
17	F	7 09	4 51	9 42	14 18	15 56	15 27
18	G	7 10	4 50	9 40	14 20	15 45	15 31
19	A	7 11	4 49	9 38	14 22	15 32	15 35
20	B	7 12	4 48	9 36	14 24	15 19	15 39
21	C	7 13	4 47	9 34	14 26	15 04	15 43
22	D	7 14	4 46	9 32	14 28	15 50	15 47
23	E	7 14	4 46	9 32	14 28	15 36	15 51
24	F	7 15	4 45	9 30	14 30	15 18	15 55
25	G	7 16	4 44	9 28	14 32	15 59	15 59
26	A	7 17	4 43	9 26	14 34	15 40	16 03
27	B	7 18	4 42	9 24	14 36	15 21	16 07
28	C	7 18	4 42	9 24	14 36	15 00	16 10
29	D	7 19	4 41	9 22	14 38	15 38	16 14
30	E	7 20	4 40	9 20	14 40	15 17	16 19

11 Mo. NOVEMBER. 30 Days

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	B.	D.	E.	G.	N. C.
1809	1	A	14	5	7
1810	2	G	25	6	26
1811	3	F	6	7	15
1812	B	D	17	8	4
1813	1	C	28	9	22
1814	2	B	9	10	12
1815	3	A	20	11	1, 30
1816	B	F	1	12	20
1817	1	E	12	13	7
1818	2	D	23	14	26
1819	3	C	4	15	16
1820	B	A	15	16	6
1821	1	G	26	17	25
1822	2	F	7	18	14
1823	3	E	18	19	1
1824	B	C	0	1	20
1825	1	B	11	2	12
1826	2	A	22	3	27
1827	3	G	3	4	16
1828	B	E	14	5	6

12 Mo.

DECEMBER.

31 Days.

*Solar calculations and other phenomena,  
calculated to the mean term of 20 years.*

		☉ R.	☉ S.	L. day	L. nt.	E. T.	R. ☉
Day.	D.	H. M.	H. M.	H. M.	H. M.	sub. M. S.	H. M.
1	F	7 21 4	39	9 18	14 42	10 58	16 27
2	G	7 22 4	38	9 16	14 44	10 34	16 31
3	A	7 23 4	37	9 14	14 46	9 46	16 35
4	B	7 23 4	37	9 14	14 46	9 21	16 39
5	C	7 24 4	36	9 12	14 48	8 57	16 44
6	D	7 24 4	36	9 12	14 48	8 30	16 48
7	E	7 24 4	36	9 12	14 48	8 04	16 52
8	F	7 25 1	35	9 10	14 50	7 39	16 57
9	G	7 25 4	35	9 10	14 50	7 11	17 01
10	A	7 26 4	34	9 08	14 52	6 44	17 05
11	B	7 26 4	34	9 08	14 52	6 17	17 10
12	C	7 26 4	34	9 08	14 52	5 48	17 14
13	D	7 27 1	33	9 06	14 54	5 20	17 19
14	E	7 27 4	33	9 06	14 54	4 51	17 23
15	F	7 28 4	32	9 04	14 56	4 22	17 28
16	G	7 28 1	32	9 04	14 56	3 51	17 32
17	A	7 28 4	32	9 04	14 56	3 22	17 36
18	B	7 29 1	31	9 02	14 58	2 53	17 41
19	C	7 29 1	31	9 02	14 58	2 25	17 45
20	D	7 29 1	31	9 02	14 58	1 53	17 50
21	E	7 29 1	31	9 02	14 58	1 24	17 54
22	F	7 29 1	31	9 02	14 58	0 55	17 59
23	G	7 29 1	31	9 02	14 58	0 25	18 03
24	A	7 29 1	31	9 02	14 58	add. 7	18 07
25	B	7 29 1	31	9 02	14 58	0 37	18 12
26	C	7 28 4	32	9 04	14 56	1 08	18 16
27	D	7 28 4	32	9 04	14 56	1 37	18 21
28	E	7 28 4	32	9 04	14 56	2 05	18 25
29	F	7 28 4	32	9 04	14 56	2 04	18 30
30	G	7 27 4	33	9 06	14 54	3 34	18 34
31	A	7 27 4	33	9 06	14 54	3 21	18 39

12 Mo. DECEMBER. 31 Days.

*Lunar calculations and other phenomena,  
calculated for the term of 20 years.*

Y.	M.	D.	E.	G.	N. 3
1809	1	A	14	5	7
1810	2	G	25	6	26
1811	3	F	6	7	15
1812	B	D	17	8	3
1813	1	C	28	9	22
1814	2	B	9	10	11
1815	3	A	20	11	30
1816	B	F	1	12	19
1817	1	E	12	13	7
1818	2	D	23	14	26
1819	3	C	4	15	16
1820	B	A	15	16	5
1821	1	G	26	17	24
1822	2	F	7	18	14
1823	3	E	18	19	1, 30
1824	B	C	0	1	20
1825	1	B	11	2	10
1826	2	A	22	3	27
1827	3	G	3	4	16
1828	B	E	14	5	6



## OF PAST TIME.

## A TABLE,

Shewing the Dominical Letter for 80 years back—for an explanation consult the Key, page 32.

Y.	D.	Y.	D.	Y.	D.	Y.	D.
1729	B	1749	E	1769	A	1789	D
1730	A	1750	D	1770	G	1790	C
1731	G	1751	C	1771	F	1791	B
1732	F E	1752	B A	1772	E D	1792	A G
1733	D	1753	G	1773	C	1793	F
1734	C	1754	F	1774	B	1794	E
1735	B	1755	E	1775	A	1795	D
1736	A G	1756	D C	1776	G F	1796	C B
1737	F	1757	B	1777	E	1797	A
1738	E	1758	A	1778	D	1798	G
1739	D	1759	G	1779	C	1799	F
1740	C B	1760	F E	1780	B A	1800	E
1741	A	1761	D	1781	G	1801	D
1742	G	1762	C	1782	F	1802	C
1743	F	1763	B	1783	E	1803	B
1744	E D	1764	A G	1784	D C	1804	A G
1745	C	1765	F	1785	B	1805	F
1746	B	1766	E	1786	A	1806	E
1747	A	1767	D	1787	G	1807	D
1748	G F	1768	C B	1788	F E	1808	C B

A TABLE, shewing the time of the moon's southing—the time of high and low water at the Port of Sag-Harbor, for every day of her age.

BY adding or subtracting you have the time of high or low water at the enumerated places.

A stands for add—S for subtract.

age	south.	High water.	Low water.
Days	P. M.	A. M.	P. M.
	H.	M.	H. M.
0	0	00	10 00
1	0	48	10 36
2	1	37	11 11
3	2	25	11 48
4	2	15	P.M. 24 6
5	4	03	1 03
6	4	54	1 49
7	5	41	2 37
8	6	29	3 40
9	7	18	4 58
10	8	07	6 14
11	8	56	7 19
12	9	44	8 10
13	10	35	8 54
14	11	22	9 33
15	A.M.	11	10 09
16	1	00	10 53
17	1	49	11 20
18	2	37	11 55
19	3	26	A.M. 31 6
20	4	15	1 11
21	5	04	1 56
22	5	53	2 49
23	6	41	3 57
24	7	30	5 16
25	8	19	6 32
26	9	09	7 33
27	9	59	8 22
28	10	47	9 04
29	11	36	9 42
29½	12	00	10 00

	H. M.
Block Island,	S 2 23
Boston L. H.	A 1 30
Cape Ann,	A 1 30
Henry,	S 3 0
Charleston, (S. C.)	S 3 0
Dering's Harbor,	A 1 0
Shelter-Island,	S 1 10
Florida Keys,	S 2 23
Gay Head,	A 1 0
Goldsborough,	A 1 0
Mount Desert,	A 1 30
Marblehead,	A 1 6
Machias,	S 1 6
New-London,	A 1 0
New-Haven,	A 2 3
Nantucket,	S 1 6
New-York,	A 1 30
Passamaquoddy,	A 0 45
Portland,	S 2 23
Rhode Island,	A 0 45
Race Point,	S 1 10
Saybrook,	A 1 30
Salem,	S 1 8
Tarpaulin Cove,	

## A TABLE,

Shewing the right ascension and magnitude of some of the principal Fixed Stars, whose declination is less than  $23^{\circ} 29'$

STAR'S NAMES.					Mag	R. *	
						H.	M.
Aldebaran,	-	-	-	N	1	4	25
Ariestes,	-	-	-	N	2	1	57
Algenib,	-	-	-	N	2	0	03
Arcturus,	-	-	-	N	1	14	07
Sirius,	-	-	-	S	1	6	37
Seven Stars,	-	-	-	N	3	3	36
Rigel,	-	-	-	S	1	5	06
Procyon,	-	-	-	N	1.2	7	30
Alphard,	-	-	-	S	2	9	19
Regulus,	-	-	-	N	1.2	9	59
Denebola, (Lion's tail)	-	-	-	N	1.2	11	40
Spica, (Virgin's Spike)	-	-	-	S	1	13	16
Menker,	-	-	-	N	2	2	52
Hyades,	-	-	-	N	3	4	09
Bellatrix,	-	-	-	N	2	5	15
Belelguese,	-	-	-	N	1	5	45
Acubens,	-	-	-	N	3	8	48
Algethi,	-	-	-	N	2	17	26
Alhague,	-	-	-	N	2	17	07
Atair,	-	-	-	N	2	19	42
Marcab,	-	-	-	N	2	22	56
Zubenesch,	-	-	-	S	2	14	41
Zubenelg,	-	-	-	S	2	15	08
Pallux,	-	-	-	N	2.3	6	27
Western shoulder of Orion,	-	-	-	N	2	5	15

## A TABLE,

Shewing the right ascension and magnitude of some of the principal Fixed Stars whose declination is more than  $23^{\circ} 29'$ .

STAR'S NAMES.					Mag	R. •	
						H.	M.
Polar Star, tail of the great bear,	N	2	3			0	58
Shedar, - - - - -	N	3				0	29
Mirach, - - - - -	N	2				0	59
Malgal, - - - - -	N	2				2	59
Algenib, - - - - -	N	2				3	10
Capella, - - - - -	N	1				5	3
Castor, (bright star in the head of Gemini,) - - - - -	N	2				7	22
* Dubhe, - - - - -	N	2				10	52
* Alioth, - - - - -	N	2				12	46
* Benetnatch, - - - - -	N	2				13	40
Mireech, - - - - -	N	3				14	37
Alphacca, - - - - -	N	2				15	27
Rastaben, in the head of the dragon, - - - - -	N	2				17	52
Vega, - - - - -	N	1				18	31
Deneb, - - - - -	N	2				20	35
Alderamin, - - - - -	N	3				21	13
Scheat, - - - - -	N	2				22	54
Achernar, - - - - -	S	1				1	31
Canopus, - - - - -	S	1				6	20
Antares, - - - - -	S	1				16	17
Fomalhaut, (bright stars) - - - - -	S	1				22	47
Foot of the cross, - - - - -	S	1				12	16

\* These stars are the pointers around the North Pole.

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LEGISLATIVE, EXECUTIVE,

AND OFFICERS OF THE

FEDERAL GOVERNMENT;

*With the number of Inhabitants in 1800.*

A President, Vice-President, Senate, and  
House of Representatives.

Total number of Inhabitants, 5,305,666

————— Slaves, 893,605

Two Senators from each State, and one  
Representative to 30,000 Inhabitants.

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## LEGISLATIVE, EXECUTIVE,

OFFICERS OF

## GOVERNMENT.

*Elections and Sessions of Legislatures—  
the number of Inhabitants—the number of  
Senators and Representatives in Congress  
for each STATE, agreeable to the Census  
of 1800.*

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### VERMONT.

A Governor, Deputy Governor, twelve Councillors,  
and a General Assembly.

Election, first Tuesday in September. Session,  
second Tuesday in October.

Total number of Inhabitants, - 154,465.

Slaves, none.

Two Senators—four Representatives.

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### NEW-HAMPSHIRE.

A Governor, Lieutenant Governor, Senate and Re-  
presentatives.

Election, second Tuesday in March. Session, first  
Wednesday in June, and oftener if necessary.

Total number of Inhabitants, - 183,858

Slaves, - - - - - 8

Two Senators—five Representatives.

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### MASSACHUSETTS.

*Including the District of Maine.*

A Governor, Lieutenant Governor, Senate, and Re-  
presentatives.

Election for Governor, the first Monday in April ;  
for Representatives, ten days before the last Wednesday in May. Session, last Wednesday in May.

Total number of Inhabitants, - 574,349

Slaves, none.

Two Senators—seventeen Representatives.

## RHODE-ISLAND.

A Governor, Deputy Governor, Senate, and Representatives.

Election, — May. Four sessions in a year.

Total number of Inhabitants, - 62,122

Slaves, - - - - - 320

Two Senators—two Representatives.

## CONNECTICUT.

A Governor, Lieutenant Governor, twelve Councilors and a General Assembly.

Election, Monday after the first Tuesday in April, and third Monday in September; Session, second Thursday in May and October.

Total number of Inhabitants, - 251,002

Slaves, - - - - - 951

Two Senators—seven Representatives.

## NEW-YORK.

A Governor, Deputy Governor, Senate and Assembly.

Election, fourth Tuesday in April, three days. Session, fourth Tuesday in January.

Total number of Inhabitants, - 586,050

Slaves, - - - - - 20,613

Two Senators—seventeen Representatives.

## NEW-JERSEY.

A Governor, Council, and Assembly.

Election, second Tuesday in October. Session, second Tuesday after the second Tuesday in October.

Total number of Inhabitants, - 211,142

Slaves, - 12,422

Two Senators—six Representatives.

## **PENNSYLVANIA.**

A Governor, Senate, and Representatives.

Election, second Tuesday in October. Session, first Tuesday in December.

Total number of Inhabitants, 602,545

Slaves, 1,706

Two Senators—eighteen Representatives.

## **DELAWARE.**

A Governor, Senate, and Representatives.

Election, first of October. Session twentieth of do. (unless Sundays.)

Total number of Inhabitants, - 64,375

Slaves, - 6,153

Two Senators—one Representative.

## **MARYLAND.**

A Senate and Delegates, who choose a Governor.

Election, first Monday in October. Session, first Monday in November.

Total number of Inhabitants, - 349,692

Slaves, - 107,707

Two Senators—nine Representatives.

## **VIRGINIA.**

A Senate and Delegates, who elect a Governor and Council.

Election, first Tuesday in April. Session in June and December.

Total number of Inhabitants, - 886,192

Slaves, - 346,968

Two Senators—twenty-three Representatives.



## NORTH-CAROLINA.

A Senate and Commons, who elect a Governor and Council.

Election, second Monday in August, three days.—

Session, fourth Monday in November.

Total number of Inhabitants, - - - 478,103.

Slaves, - - - - - 133,296

Two Senators—twelve Representatives.

## SOUTH-CAROLINA.

A Senate and Representatives, who elect a Governor and Lieutenant Governor.

Election, second Monday in October, every second year. Session, last Tuesday in November annually.

Total number of Inhabitants, - - - 345,591

Slaves, - - - - - 146,151

Two Senators—eight Representatives.

## GEORGIA.

A Senate and Representatives who choose a Governor.

Election, first Monday in October. Session, first Monday in November.

Total number of Inhabitants, - - - 162,686

Slaves, - - - - - 59,699

Two Senators—four Representatives.

## KENTUCKY.

A Governor, Senate, and Representatives.

Election, first Monday in August, three days. Session, first Monday in November.

Total number of Inhabitants, - - - 220,952

Slaves, - - - - - 40,343

Two Senators—six Representatives.

## TENNESSEE.

A Governor, Senate, and Representatives.  
 Election, first Thursday in August, two days, every  
 second year. Session, third Monday in September.  
 Total number of Inhabitants, 105,609  
 Slaves, 10,585.  
 Two Senators—three Representatives.

## OHIO.

A Governor, Senate, and Representatives.  
 Election, ——— Session, second Monday in De-  
 cember.  
 Total number of Inhabitants, 34,000  
 Two Senators—one Representative.

## SESSIONS OF THE COURTS.

### SUPREME FEDERAL COURT.

AT Washington to commence on the first Monday  
 in February annually.

### CIRCUIT FEDERAL COURTS.

*In the first and second Eastern Circuits.*

VERMONT.—At Windsor, May 1. At Rutland,  
 October, 3.


NEW-HAMPSHIRE.—At Portsmouth, May 19. At  
 Exeter, November 2.

MASSACHUSETTS.—At Boston, June 1, and Octo-  
 ber 20.

RHODE-ISLAND.—At Newport, June 15. At Pro-  
 vidence November 15.

CONNECTICUT.—At Hartford, September 17. At  
 New-Haven, April 13.

NEW-YORK.—At New-York, April 1, and Septem-  
 ber 1.

 *If any of the above days happen on Sunday,  
 the Court is to commence on Monday.*

District

**DISTRICT FEDERAL COURTS.**

**DISTRICT OF MAINE.**—At Portland and Wiscasset alternately the first Tuesday in March, May, September, and December.

**NEW-HAMPSHIRE.**—At Portsmouth and Exeter alternately third Tuesdays in March, June, September and December.

**MASSACHUSETTS.**—At Boston, fourth Tuesday in June, and first in December. At Salem, third Tuesday in March, and 2d in September.

**RHODE-ISLAND.**—At Newport, first Tuesday in February and August. At Providence, second Tuesday in May and third in November.

**CONNECTICUT.**—At Hartford and New-Haven, alternately third Tuesdays in February, May, August, and November.

**VERMONT.**—At Rutland, second Monday in May, at Windsor, first Monday in February.

**NEW-YORK.**—At New-York, first Tuesdays in February, May, August and November.

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REMARKABLE OCCURRENCES,  
 AND  
 IMPORTANT PERIODS,  
 OR THE  
 OUTLINES OF THE HISTORY,  
 RISE, PROGRESS, AND ESTABLISHMENT  
 OF THE  
 UNITED STATES.

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CHRISTOPHER COLUMBUS received a commis- sion from the court of Spain, for making dis- coveries, April 7	1492
Columbus sailed on his voyage of discovery, August 3	Ib.
Variation of the magnetic needle first discover- ed by Columbus, September 14	Ib.
First discovery of land in the new world by Co- lumbus, October 12	Ib.
Columbus sailed on a new expedition to the new world, September 25	1493
Sebastian Cabot discovered the continent of North America	1498
Columbus seized by a Spanish governor and sent home to Spain in chains, August 23	1500
Columbus sails on his fourth voyage, June 3	1502
The first adventures of fishing on the banks of Newfoundland	1504
Columbus	

<del>Columbus ended his active and useful days at</del>	
Valladolid, aged 58 years, May 20	1508
Martin Luther begins the reformation	1517
First effectual settlement in Virginia, April 26	1610
New-York and New-Jersey settled by the Dutch	1614
The first vessel that sailed through Hell-Gate, commanded by captain Dermore	1619
Mr. Robertson's congregation sailed from Delft Haven for Southampton, July 12.—Sailed from Plymouth for America, September 6.—Discovered Cape Cod, November 9.—Seated themselves at a place which they called New-Plymouth, December 20	1620
New-Hampshire settled	1623
The first cattle brought into America	1624
Massachusetts Bay settled	1628
Pennsylvania and Delaware settled by Swedes and Fins, 1627, by the Friends	1682
Charter of Connecticut from the Earl of Warwick, March 19	1631
First vessel launched in Massachusetts, called the Blessing of the Bay, July 4	Ib.
Maryland settled by Roman Catholics	1633
A fort built on the west bank of Connecticut river, in the present town of Hartford, by the Dutch	Ib.
Connecticut and Providence settled	1633-4
First assembly in Maryland	Ib.
A fort built at the mouth of Connecticut river, by agents sent over by Lords Say and Brook, by which it derived the name of Saybrook	Ib.
A coalition of the several New-England colonies, to suppress a tribe of Indians, (by the name of Pequods) their common enemy	1637
Captains Patrick and Trask, with 100 men, pursued the Pequods to an hideous swamp near where Fairfield or Stratford now stands; a bloody engagement followed, in which the Pequods were defeated, and sued for peace	Ib.
Mr. Codenton settled Rhode-Island, March 24	1638
First sermon preached at Quinipioke, (New-Haven)	

- Haven) by Mr. Davenport, from Matthew,  
iii. 1. April 18 Ib.
- First printing-press established at Cambridge,  
Massachusetts 1641
- The New Testament translated into Indian by  
Mr. Elliott, and printed 1661
- New Netherlands granted to the Duke of York  
and called New-York, March 12 1664
- Fort Orange taken and called Albany Ib.
- Connecticut laws first printed at Cambridge, by  
Mr. Green 1676
- Indian war under Philip first sounded in Ply-  
mouth colony, June 24 Ib.
- A foot company under the command of Daniel  
Henchman, with a troop of horse under Tho-  
mas Prentice, were sent out of Boston towards  
Mount Hope, who were occasioned to make  
a halt in the night by the central eclipse of  
the moon in caprice, June 26 Ib.
- Captains Mosely and Davenport being joined by  
Connecticut and Plymouth forces, took the  
Indian fort at Narraganset. The English lost  
80 men killed and 150 wounded—of the In-  
dians were 700 killed and 300 which died of  
their wounds afterwards, December 19 Ib.
- Weymouth burnt by the Indians, February 25 1676
- Warwick burnt by the Indians, March 17 Ib.
- Rehoboth insulted by the Indians, 40 houses and  
30 barns burnt, March 28 Ib.
- Five files of men under the command of Ser-  
geant Bennet, marched into the Sachems  
country, killed and took 70 of the enemy, and  
burnt 150 wigwams, April Ib.
- The English in Hadley and Northampton re-  
ceived much damage by the Indians taking  
away their cattle, &c. in April. Two lads who  
were taken by the Indians and had made their  
escape, informed their friends where the In-  
dians lay near the falls of Connecticut river,  
not far from Deerfield. Captain Halyoke,  
with 150 men, marched forward, surprized

them in the night, killed and drove into the river who went over the falls 300 Indians; white men lost only 38, May 18	Ib.
Jamestown, Virginia, burnt by the insurgents, August 12	Ib.
First episcopal church founded in Boston	1686
Schenectady burnt and the inhabitants slain, Feb. 8	1690
Mild winter, vessels go to Albany in February	1662-3
Severe winter	1697-8
Fatal yellow fever in Philadelphia	1699
Charleston depopulated by an inundation	Ib.
First post-office established in America	1710
North Carolina settled	Ib.
Congress of governors at New-London, to consult on an expedition to Canada, May, 1	1711
Iron manufactured in Virginia	1712
Greatest snow storm ever known in America	1717
The northern lights, which had disappeared for almost a century, appeared in New-England, December 11	1719
Newspapers first printed in New-York	1725
Printing introduced into Virginia by Wm. Parks	1726
Georgia settled	1732
The illustrious Washington born in Westmoreland county, Virginia, February 11	Ib.
Origin of Free Masonry in America, July	1733
Indigo plant first discovered in South Carolina	1745
Charleston, (S. C.) laid under water by a tempest, September	1752
General Abercrombie defeated at Ticonderoga	1758
Montreal capitulated to the English, Sept. 8	1759
Battle of Quebec. Generals Wolfe and Montcalm killed, September 13	Ib.
The Cherokees defeated by Colonel Grant, June	1761
Severest drouth ever known; no rain from May 7 to November 3	1763
Mr. Israel Manduit (the Massachusetts agent) gave notice of the ministerial intention to tax the colonies early in the year	1763
The British first attempt to raise a revenue in America, by passing a sugar or molasses act, April 5	1764
	Mr.

- Mr. Otis, by order of the Massachusetts assembly, writes to the several governors to inform them of the petition to Great Britain, June 13 *Ib.*
- The Massachusetts petition forwarded by Governor Bernard, November 18 *Ib.*
- Stamp act received the royal assent, March 22 1765.
- Delegates from most of the colonies met at New-York to remonstrate against the stamp act, and petition for its repeal, October. *Ib.*
- Upon the appearance of the ship at Philadelphia having the stamps on board, all the vessels in the port hoisted their colors half mast, the bells were muffled and continued to toll till evening, October 5, 1765.
- The merchants at New-York resolve to direct their correspondents not to ship any more goods until the stamp act was repealed, Oct. 30 *Ib.*
- The merchants and traders of Boston resolved upon non-importation of goods from Great Britain, December 9 *Ib.*
- Mr. Grenville moved that the stamp act should be enforced, and was supported by 134, but opposed by 274, February 22 1766
- The stamp act repealed; the motion was carried by 275 against 167, March 18 *Ib.*
- A bill received the royal assent for taxing the Americans with a duty upon paper, glass, painters colors, tea, &c. June 29 1767.
- Mr. Hancock's sloop Liberty seized by the collector of the customs, which occasions a great disturbance, and is followed by riotous proceedings among the parties, June 10 1768.
- The commissioners at Boston wrote to General Gage, desiring troops to support them in their office, June 15 *Ib.*
- Troops to the amount of 700 land in Boston to enforce the laws, October 1 *Ib.*
- The soldiers at Boston fire upon the inhabitants, March 5 1770
- The King gave his assent to the act for the repealing the duties on glass, paper and colors. *The*



- The tea duty continued as a pepper-corn rent, as a badge of sovereignty over the colonies, April 12 Ib.
- Mr. M'Dougall, of New-York, committed to jail for publishing an address to the inhabitants, (he was the first sufferer for liberty) February 8 Ib.
- The armed schooner *Gaspee*, commanded by Lieutenant Dudington, burnt in Providence river, by a party in which Mr. John Brown, a considerable merchant of Providence, was principal, June 10 1772
- The East India Company's tea, consisting of 342 chests, destroyed at Boston, December 16 1773
- Boston port bill received the royal assent, March 31 1774
- Governor Gage arrives at Boston, May 13 Ib.
- In consequence of the port bill, business was finished at the custom-house in Boston at 12 o'clock, and the harbor shut up against all vessels bound thither, and 14 days after none were allowed to depart. The day was devoutly kept at Williamsburg, (Vir.) Philadelphia and other places, it was observed as a day of mourning, June 1 Ib.
- A convention at Charleston, (S. C.) disapprove of the ministerial measures, and adopt sundry resolves respecting the shutting up of the port of Boston, July 6 Ib.
- Pennsylvania adopts the several resolves made by South Carolina, July 22 Ib.
- All the colonies from New-Hampshire to South Carolina inclusively, adopted the measure of electing representatives to meet in a general CONGRESS, August 10 Ib.
- Gov. (or General) Gage sends two companies of soldiers to Charleston, who possessed themselves of the powder in the arsenal; in 24 hours near 30,000 inhabitants assembled (mostly in arms) September 1 Ib.
- Fortifications on Boston neck begun by General Gage to cut off the communication between the town and country, September Ib.
- The

The delegates from all the colonies (except N. Carolina) meet in General Congress at Philadelphia.—They appointed Peyton Randolph Esq. President, and Mr. Charles Thompson, Secretary, and immediately proceeded to business, September 5

Ib.

The North Carolina delegates arrive and join the continental Congress, September

Ib.

Congress publish their declaration of rights, October 8

Ib.

Governor Gage issued writs for holding a General Assembly at Salem on the 5th of October—he afterwards counteracts the writs by proclamation—90 new members meet at Salem, October 5—no Governor appears, they wait three days, resolve themselves into a provincial Congress, chuse Mr. Hancock President, and adjourned to Concord, October 9

Ib.

The General Congress having finished their deliberations, dissolved themselves, October 26

Ib.

The Massachusetts provincial Congress publish their preparations for hostile opposition, November 23

Ib.

More than four hundred men collected and beset his Majesty's castle at Portsmouth. Captain Cochran, who commanded, ordered three four-pounders to be fired on them; before he could be ready to fire again, the fort was stormed on all quarters, and the assailants immediately secured him and his men, took all the powder, &c. then released their prisoners, December 14

Ib.

A battle between the whigs and tories at New-York; the latter defeated by the former, under the command of Captain Sears, March 5

1775

Lexington battle. Here was spilt the first blood in the late war. The British had 65 killed and 180 wounded, and 28 made prisoners, total 273; the provincials, 50 killed, 34 wounded, and 4 missing, in all 88, April 19

Ib.

Captain John Derby, of Salem, receives the first

- naval commission granted by Massachusetts provincial Congress ; he is entrusted with dispatches to Dr. Franklin, an address to the inhabitants of Great Britain with an account of the Lexington battle, April Ib.
- Colonel Allen takes Ticonderoga by surprise, without the loss of a man on either side, May 10 Ib.
- Generals Howe, Clinton and Burgoyne, arrive at Boston, May 25 Ib.
- The provincial army at Cambridge (near Boston) amounted to 7644, June 10 Ib.
- General Gage issued a proclamation offering a pardon in the King's name, to all who should lay down their arms and return to their peaceable occupations, (Samuel Adams and John Hancock excepted) June 12 Ib.
- Congress for the first time styled the colonies THE TWELVE UNITED COLONIES, June 7 Ib.
- The Congress of the United Colonies proceed to choose by ballot, a general to command all the continental forces, and George Washington, Esq. was unanimously elected, June 15 Ib.
- George Washington, Esq. received his commission as Captain General and commander in chief—Charlestown burnt—battle at Breed's Hill (erroneously called Bunker's). General Warren killed—The British lost in killed and wounded, 1328—The loss of the provincials in killed and wounded, amounted to 453, June 17 Ib.
- General Washington, accompanied by other officers, arrived at Cambridge and took the command of the provincial army, July 2 Ib.
- The colony of Georgia joins the United Colonies, September Ib.
- Falmouth (Mass.) burnt by order of the British admiral, October 17 Ib.
- Lord Dunmore attempts to burn the port town of Hampton, but was repulsed, October 27 Ib.
- Battle between the royalists and provincials near Norfolk, November Ib.
- Colonel Woodward with the provincials enter Norfolk, December 14 Ib.

Assault

- Assault upon Quebec—General Montgomery killed in attempting to scale the wall; the Americans defeated, December 31 Ib.
- Norfolk cannonaded and burnt—damage estimated at \$ 1,352,000. Lord Dunmore was principal actor in burning the best town in his government, January 1 1776
- Gen. Schuyler, by order of Congress, disarmed the inhabitants of Johnstown, January 20 Ib.
- General Lee collected 1200 continental troops at Stamford for the purpose of taking possession of New-York, but was detained with the gout. Captain Sears, alias King Sears, takes the command of Colonel Waterbury's regiment and marches immediately into and takes possession of New-York, January 22 Ib.
- Preparations for taking Dorchester heights, February 26 Ib.
- Battle at Moore's Creek, (N. C.) the British defeated by Colonel Lillington, February 27 Ib.
- A heavy service of cannon and mortars began to play on the town of Boston from Cobble-Hill, Lechmer's Point, and Lamb's Dam, a fortified battery at Roxbury, March 2 Ib.
- Seven ships loaded with rice, &c. for General Howe's army, burnt at Savannah, March 3 Ib.
- General Howe resolves upon evacuating Boston, March 6 Ib.
- General Howe issued a proclamation, ordering all woollen and linen goods to be delivered to Crane Brush, be they in whose hands they might, March 9 Ib.
- The streets of Boston barricadoed in different parts of the town, March 14 Ib.
- A breast-work was discovered to be thrown up by the Americans at Nook's Hill on Dorchester peninsula, which from its proximity, had an entire command of Boston, which obliges the British to evacuate it, amounting to 7575, exclusive of the staff, March 17 Ib.
- His Excellency the Commander in Chief, sent off

- off five regiments under General Heath, for New-York, March 18 Ib.
- Congress permit armed vessels to be fitted out, and cruise on the enemies of the United Colonies, March 23 Ib.
- Massachusetts Council and House of Representatives, compliment his Excellency the Commander in Chief, in a joint address, March 29 Ib.
- Congress resolve that no slaves be imported into the United Colonies, April 6 Ib.
- The remains of General Warren were taken up and decently interred in Boston, by the Society of Free Masons, whereof he was late Grand Master, April 8 Ib.
- His Excellency the Commander in Chief, arrived at New-York, April 14 Ib.
- Richard H. Lee, Esq. one of the delegates from Virginia, moved for a Declaration of Independence, June 7 Ib.
- Messrs. Jefferson, J. Adams, Franklin, Sherman and R. R. Livingston, were appointed a committee to prepare a Declaration of Independence, June 10 Ib.
- General Howe arrived at Sandy-Hook in the frigate Greyhound, June 25 Ib.
- General Clinton repulsed in S. Carolina, June 28 Ib.
- Congress resolved itself into a committee of the whole on the subject of independency, July 1 Ib.
- The British take possession of Staten-Island, July 2 Ib.
- Congress publish the Declaration of Independence, which separated the American Colonies (by the name of the United States of America) from Great Britain. This great event took place 284 years after the discovery of America by Columbus, 170 from the first settlement in Virginia, and 156 from the first settlement at Plymouth. July 4 Ib.
- Battle on Long-Island, the Americans defeated August 27; the American troops withdraw from the Island August 28 Ib.  
The

- The Americans evacuate New-York, September 14 Ib.
- Battle at the White Plains, though not decisive, October 28 Ib.
- Fort Washington taken, with 2000 prisoners, November 16 Ib.
- The British take possession of Rhode-Island, December 7 Ib.
- Gen. Lee taken at Baskinridge, December 13 Ib.
- Gen. Washington takes a body of Hessians at Trenton, amounting to 918 prisoners, with very little loss, December 26 Ib.
- Cannonading at Trenton, January 2 1777
- Battle at Princeton, January 3 Ib.
- Gen. Dickinson, with 400 militia and 50 riflemen, defeated a foraging party near Somerset Courthouse, January 20 Ib.
- Congress resolved that Gen. Washington should not be bound by a majority of voices in a council of war, contrary to his own judgment, January 24 Ib.
- Battle at Boundbrook, near Rariton, between Gen. Lincoln and Lord Cornwallis, April 13 Ib.
- Gen. Howe takes the field, May 13—returns to Brunswick, 22—removes to Amboy. In his marches his troops are allowed to commit rapine and plunder, which greatly distresses the Jersey inhabitants Ib.
- Gov. Tryon's expedition to Danbury—burns a number of houses, stores, &c. destroys 1800 barrels of pork and beef; 700 do. of flour; 2000 bushels of wheat and rye; 100 hogsheads of rum; 1790 tents. Gen. Wooster wounded, April 27. Gov. Tryon with difficulty makes good his retreat, April 28 Ib.
- Gen. Wooster died of his wounds, May 2 Ib.
- The British destroy the Continental stores at Peekskill, March 25 Ib.
- Col. Meigs begins his expedition to Sag-Harbor, May 21, with 13 whale-boats, and 170 men; arrived at Southold on Friday, 23.—At

- 2 A. M. May 24, arrived at Sag-Harbor, takes the British post, consisting of 90 men, burns and destroys 12 brigs and sloops, 100 tons of hay, 10 hogshheads of rum, &c. On his return across Shelter-Island, the troops received refreshment at the house of that humane philanthropist and distinguished patriot, William Bowditch, Esq. May 24 Ib.
- Gen. Washington moved his whole army to Quibbletown, May 24 Ib.
- The Americans evacuate Ticonderoga, at 2 o'clock, A. M. July 6 Ib.
- A bloody engagement fought near Skeensborough (Whitehall) between Gen. Frazer and Col. Warner, July 7 Ib.
- Battle at Wood-Creek, near Fort Ann—the Americans retreat to Fort Edward, July 8, Ib.
- In 1776 Marquis de la Fayette, at the age of 19 years, espoused the cause of the Americans and determined upon joining them in person. He accordingly communicated his intention to the American Commissioner. News arrived in France that the American army was reduced to 2000 men, and was retreating thro' the Jerseys, pursued by an army of 30,000 regular troops. The American credit was not sufficient for their commissioner to charter a vessel to bring dispatches and this nobleman, this second Washington, to the United States. He fitted out a vessel at his own expence, which bro't the dispatches to Congress, and himself to America. Congress appointed him Major General in the army of the United States; he accepted the appointment upon condition that he would live at his own expence, and that he enter as a volunteer, July 31 Ib.
- Gen. Horatio Gates appointed to the command of the northern army, and to relieve Gen. Schuyler, August 4 Ib.
- Gen. Stark defeats Col. Baum, near Bennington, August 16 Ib.
- General

- General Sullivan's expedition to Staten-Island, August 23 Ib.
- Battle at Brandywine, in which both parties suffered a considerable loss, September 11 Ib.
- Battle at Stillwater, which gave a check to the progress of Lieutenant General Burgoyne, September 19 Ib.
- The British army take possession of Philadelphia, September 26 Ib.
- Battle at Germantown; the British lost 535, Americans 521, including wounded and missing, October 4 Ib.
- Battle at Saratoga, Burgoyne defeated, October 7 Ib.
- Kingston (Esopus) burnt by General Vaughan, October 13 Ib.
- Lieutenant General Burgoyne surrenders his whole army to Major General Gates at Saratoga, consisting of 5791 prisoners of war; among the prisoners were six members of Parliament,\* October 17 Ib.
- Count Donop repulsed in a grand attack upon Red Bank, October 22 Ib.
- A desperate attack upon Mud-Island, alias Fort Mifflin, 1030 discharges of cannon are made by both parties in twenty minutes, Nov. 15 Ib.
- The American army marched from White Marsh, and hut at Valley Forge in great distress for want of cloathing; in marching over the frozen ground they might have been tracked by the trail of blood from their torn feet, December 11 Ib.
- A public audience and reception was given to the American Commissioners, Messrs. Franklin, Deane and Lee by the French monarch. They were introduced by Monsieur Vergennes, and received by the King as Plenipotentiaries of the UNITED STATES OF AMERICA, March 21

1778

British

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\* Gordon's History of the American Revolution, vol. ii. p. 267.



British Commissioners arrived at Philadelphia, with terms of reconciliation, June	Ib.
The British evacuate Philadelphia, June 18	Ib.
Battle at Monmouth, between Gen. Washington and Sir H. Clinton. (General Lee's conduct in the field of battle prevented a defeat of the British army.) Both parties suffered considerable loss, June 28	Ib.
Gen. Lee tried by a court martial and suspended from any command of the army for twelve months, June 30	Ib.
Count D'Estaing anchored in the entrance of Delaware Bay, after being at sea 87 days, July 8	Ib.
Count D'Estaing arrived at Rhode-Island, and anchored off Point Judith, July 29. He puts to sea to encounter Lord Howe, August 10.— Both fleets dispersed by a tempest, Aug. 12	Ib.
The French fleet return to Rhode-Island and sail for Boston, August 22	Ib.
Battle on Rhode-Island, August 29	Ib.
New-Bedford burnt by Gen. Gray ; damage estimated at 88,800 dollars, September-6. He lays Martha's Vineyard under contribution of all the public money, militia arms, 300 oxen, and 10,000 sheep ; which was complied with, September 8,	Ib.
Savannah taken by the British, December	Ib.
General Ash defeated, February 2	1779
Battle at Briar creek, the Americans defeated, February 27	Ib.
Gen. Lincoln marches up the Savannah River.	
Gen. Prevost enters South-Carolina and pushes for Charleston, April 23	Ib.
Nine hundred of the British army appeared before Charleston, May 11	Ib.
Gen. Prevost intercepts a letter from General Green, discovers the movements of General Lincoln, suddenly retreats across Ashley River, to avoid Gen. Lincoln, May	Ib.
Battle at Briar Creek, General Ash defeated.— Stores at Norfolk destroyed, May	Ib.
	The

- The British invade New-Haven, July 5.—Destroyed stores, &c. the soldiers having made too free with some spirituous liquor, General Tryon, who commanded them, was obliged to make a sudden retreat without accomplishing his design of burning the town, July 6 Ib.
- Fairfield invaded, plundered and burnt by Gen. Tryon July 8.—The conflagration list stands thus : 2 houses of public worship, 82 dwelling-houses, 55 barns, 30 stores and shops—at Green Farms, 1 house of public worship, 15 dwelling-houses, 11 barns and several stores.
- Norwalk invaded, plundered and burnt by Gen. Tryon, July 12—2 houses of public worship, 80 dwelling-houses, 87 barns, 22 stores, 17 shops, 4 mills, and 5 vessels were laid in ashes.
- Stoney Point taken by General Wayne. Lieutenant Colonel Johnson, with 543 soldiers, were made prisoners, July 16 Ib.
- Major Lee surprises and takes the British post at Paulus Hook, consisting of 191, July 19 Ib.
- Minisink settlement burnt and the inhabitants carried off by the Indians under the command of Joseph Brandt, July 23 Ib.
- General Sullivan marched into the Indian country, burnt and destroyed every thing that felt in his way, August and September Ib.
- The Spanish Governor of Louisiana recognizes the American Independence, and marches against the British settlements on the Mississippi, August 19 Ib.
- Count D'Estaing arrives at Charleston with 20 sail of the line, 2 of 50 guns and 11 frigates, September 1 Ib.
- Colonel White with 6 volunteers, takes 4 British armed vessels and 141 prisoners, at the River Ogeechee, September 30 Ib.
- Assault on Savannah, Count Putaski killed, Oct. 9 Ib.
- Newport evacuated by the British, October 25 Ib.
- The winter the most rigorous ever known—  
Long-Island Sound frozen almost across 1779-80  
U Charleston

- Charleston invested by the British under Sir H. Clinton, March 29 1780
- The British opened their batteries upon Charleston, April 12 Ib.
- Charleston surrendered to the British, May 12 Ib.
- The Spaniards take Pensacola and all West Florida, May Ib.
- Dark day in New-England, at 11 o'clock, A. M. the birds having sung their evening songs, disappeared and was silent; objects could not be distinguished but at a very little distance, and every thing bore the appearance and gloom of night, May 19 Ib.
- 5000 British troops cross from Staten-Island to Elizabeth-town, June 7 Ib.
- The British engage General Greene at Springfield; retreat to Staten-Island, June 23 Ib.
- De Tiernay arrived at Rhode-Island with 2 ships of 80 guns, 1 of 74, 4 of 64, 2 of 40, a cutter of 20, an hospital ship pierced for 64, a bomb ship and 32 transports, with a land force of 6000 men under the command of Count de Rochambeau; Newport illuminated upon the occasion, July 10 Ib.
- The American daughters of liberty (at Philadelphia) open a subscription among their sex, a considerable sum is raised and appropriated to the use of the continental army; July 14 Ib.
- General Gates defeated near Camden by Lord Cornwallis; the action began at 2 A. M. Aug. 16 Ib.
- From August 16 to November 9, small parties of British and Tories are daily captured Ib.
- General Sumpter defeats Major Weims, is afterwards attacked by Tarleton, whom he also defeats, the former at Broad River, August 12, and the latter at Black-Stock Hill, near Tiger River, August 20 Ib.
- John Paulding, David Williams and Isaac Van Vert, captured Major John Andre, which discovers Arnold's plot for delivering to the British the important post of West Point.—Arnold

bold escapes on board the Vulture, a British vessel lying in Hudson River, September 25. Ib.  
 General Washington appointed a board of 12 general officers, who found Major John Andre, Adjutant General to the British army, guilty of being a spy from the enemy, and in their opinion he ought to suffer death, September 29. Ib.  
 General Washington received a letter from General Arnold, wrote in a most threatening and abusive style, September 30. Ib.  
 Major John Andre executed at Tappan, agreeable to his sentence, October 2. Ib.  
 Major Ferguson defeated and killed at King's Mountain, October 7. Ib.  
 The British evacuate all their posts on the river Pedro, October 16. Ib.  
 Massachusetts begin their government agreeable to the new constitution, and elect John Hancock, Esq. Governor, October 25. Ib.  
 Congress resolved that John Paulding, David Williams, and Isaac Van Wert, should be each rewarded for their fidelity, with the sum of \$200 per annum, during life, November 3. Ib.  
 General Gates' troops march to Salisbury. Ib.  
 Colonel Tarleton retreated to Camden after destroying most of the houses and provisions on the high hills of Santee, November 21. Ib.  
 General Gates moves his headquarters to Charlotte, and there surrenders the army into the hands of General Greene by order of Congress, December 2. Ib.  
 Lieut. Col. Washington takes the British post at Clermont by stratagem. Ib.  
 A general exchange of prisoners made by the British and American Generals Philips and Lincoln. Ib.  
 Major Talmage's expedition to Long Island. Ib.  
 Died at Newport, Charles Louis de Thieray, Knight of St. John of Jerusalem, late Governor of the islands of France and Bourbon, and chief

- chief commander of the French squadron in the American seas, December 18. *Ib.*
- Gen. Morgan defeats Col. Tarleton, at the Cowpens, near Pacolet River, January 17. 1781
- Gen. Pickens and Lieut. Col. Lee cut in pieces a large body of royalists at O'Neil's plantation, near Haw River, January 24. *Ib.*
- Lord Cornwallis evacuates Hillsborough, and passed the Haw (a branch of Cape Fear River) January 27. *Ib.*
- Battle near Guilford Court-house; Gen. Greene defeated by Cornwallis, March 15. *Ib.*
- Lord Cornwallis retreats; Gen. Greene pursues him to Deep River, March 19. *Ib.*
- Gen. Greene leaves North-Carolina, and marches towards Camden, April 5. *Ib.*
- Fort Watson, on Wright's Bluff, surrendered to Col. Lee, April 23. *Ib.*
- Gen. Greene defeated at Hobkirk Hills, by Lord Rawdon, April 25. *Ib.*
- Lord Rawdon evacuates Camden, May 10.—the British posts are taken by the Americans, May 21. *Ib.*
- Gen. Greene marches against the British garrison at Ninety-Six, May 22; is obliged to abandon the siege, and is pursued by Rawdon, June 19. *Ib.*
- The American army under Gen. Greene arrives at Eronoe, June 24. *Ib.*
- Lord Cornwallis arrived at Orangeburgh, July 4. *Ib.*
- Gen. Greene offers his lordship battle, which he refuses, July 12. *Ib.*
- Gen. Greene with the main army arrived at the high hills of Santee, July 16. *Ib.*
- Battle at Blandford; the battle was conducted on the part of the British by traitor Arnold, July 25. *Ib.*
- Gen. Greene defeats Lt. Col. Stewart, at the Eutaw Springs, Sept. 8; the British lost in killed, wounded, and prisoners, 1000. The Americans lost in killed and wounded, 454.

After

After the action the Americans retired to their former possession on the high hills of Santee, and the British took post in the vicinity of Monks corner.

New-London burnt.—Fort Griswold taken by storm and the garrison put to the sword after they had surrendered, by traitor (late General) Arnold, September 6.

The combined armies under the command of General Washington and Count de Rochambeau, arrived before York Town, September 28. The trenches of the combined armies were opened at 600 yards distance of Cornwallis' works, October 6. Cornwallis surrenders himself and army into the hands of the combined armies. General Lincoln had the honor of receiving his Lordship's sword, October 19.

Major Ross with a body of regular rangers and Indians, to the number of 600, defeated near Johnstown, by Colonel Willet, October 25.

Sir Guy Carleton informed General Washington that the government and people of Great Britain were desirous of making a peace with the Americans, May 7.

General Wayne defeats Colonel Brown near Savannah, May 21.

Provisional articles signed between the British and American Commissioners, November 30.

Savannah evacuated by the British and is the same day taken possession of by the Americans, December 14.

Captain John Derby arrived at Salem, April 4, 1783, in 22 days from Nantz, brings the news of the ratification of the articles of peace being exchanged at Paris on the 3d of February. Captain Derby was the person who carried the news of the Lexington engagement to London.

At 12 o'clock on the 19th of April, the day which completed the eighth year of the war,

the cessation of hostilities between Great Britain and the United States, was proclaimed in the American army by order of Gen. Washington	1783
American army disbanded, October 13	Ib.
General Washington's farewell address to his late army, November 2	Ib.
New-York evacuated by the British, November 25	Ib.
General Washington takes his leave of the continental officers, December 4	Ib.
General Washington resigns his commission to Congress at Annapolis, December 23	Ib.
The New Constitution framed and agreed upon, September 17	1787
George Washington inaugurated the first President under the New Constitution, April 30	1789
Dr. Benjamin Franklin died, aged 85, April 30	1790
Vermont admitted into the union, February 18	1791
General St. Clair defeated by the Indians, November 4	Ib.
Kentucky admitted into the union, June 1	1792
President Washington issues a proclamation of neutrality, April 22	1793
Tennessee admitted into the union, June 1	1796
President Washington's address to the inhabitants of the United States on his retiring from the Presidency, September 17	Ib.
John Adams, Esq. elected President of the United States, March 4	1797
A law passed for raising an army—another to capture French armed vessels, May 28	1798
Commodore Truxton captures the French frigate L'Insurgent off Montserrat, February 10	1799
George Washington, Esq. (late President of the United States) Captain General Commander in Chief of the armies of the United States, ended his useful days at Mount Vernon, December 14, aged 68	Ib.
Thomas Jefferson elected President of the United States, March 4	1801

- The frigate *Philadelphia* taken by the Tripolitans, October 31 1803
- General Wilkinson and Governor Claiborne, take possession of Louisiana in the name of the United States of America, December 20 Ib.
- A Tripolitan frigate (late frigate *Philadelphia*) taken and burnt by Lieutenant Decatur, February 16 1804
- Thomas Jefferson re-elected President, March 4 1805
- General Eaton defeats the Tripolitans and takes possession of Derne, April 27 Ib.
- John Pierce killed by a shot from the British ship *Leander* near Sandy Hook, April 25 1809
- The United States frigate *Chesapeake* fired upon by the British ship *Leopard*, near the Capes of Virginia—3 men killed, and 23 wounded, June 22 1807
- The President issued his proclamation, ordering all British armed vessels to depart from the waters of the United States—all supplies prohibited to British armed vessels, July 2 Ib.
- An embargo laid on by Congress, in consequence of the British Orders in Council and French Decrees, December 22 Ib.
- The bones of 10,000 martyrs who suffered on board the Jersey prison-ship in the late war, were entombed at the Wallabout, (Brooklyn) May 26 1808

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*Treaties made by the United States, with other Nations.*

- Treaty between the United States and France, February 6 1778
- Articles of agreement and confederation between the United States and the Delaware Nation, done at Fort Pitt, September 17 Ib.
- Treaty of Amity and Commerce concluded between



- tween his Majesty the King of Sweden, and the United States, April 3 1783
- Armistice declaring a cessation of hostilities between the United States and Great Britain, January 20 1783
- Treaty between the United States of America and the Sachems and warriors of the Six Nations, concluded at Fort Stanwick, October 22 1784
- Treaty between the United States and the Sachems and warriors of the Wiantots, Delaware, Chippaway and Ottawa Nations, concluded at Fort McIntosh, January 24 1785
- Treaty of Amity and Commerce between his Majesty the King of Prussia and the United States, concluded September 10 1785
- Treaty between the United States and headmen and warriors of the Cherokees, concluded at Hopewell on Keowee, November 28 1785
- Treaty between the United States and Choctaw Nation, concluded at Hopewell on the Keowee, near Seneca Old Town, January 3 1786
- Treaty between the United States and the Chickasaws, concluded at Hopewell on the Keowee, January 10 1786
- Treaty between the United States and the chiefs and warriors of the Shawanoe Nation, concluded at the mouth of the Great Miami, January 31 1786
- Treaty of friendship between the United States and his Imperial Majesty the Emperor of Morocco, signed at Paris by Thomas Jefferson, January 2, signed at London by John Adams, January 25 1787
- Convention between his Most Christian Majesty and the United States, done at Versailles, November 14 1788
- Treaty between the United States and the Sachems and warriors of the Wiantot, Delaware, Ottawa, Chippaway, Pattawatima and Six Nations, made at Fort Harmar on the Muskingum, January 9 1789
- Treaty

- Treaty of peace and friendship between the kings, chiefs and warriors of the Creek nation of Indians, concluded at New-York, August 20 1790
- Treaty of peace and friendship between the United States and the chiefs and warriors of the Cherokee nation of Indians, concluded on the bank of the Holston, July 2, 1794
- Articles in addition to the treaty between the United States and the Cherokee Indians, signed at Philadelphia, June 26 1794
- Treaty between the United States and the tribes of Indians called the Six Nations, done at Canandaigua, November 11. *Ib.*
- Treaty of amity, commerce and navigation, between his Britannic Majesty and the United States, concluded at London, November 19. *Ib.*
- Treaty between the United States and the Oneido, Tuscarora and Stockbridge Indians, December 2. *Ib.*
- Treaty of peace between the United States and the tribes of Indians called the Wiandots, Delawares, Shawanoes, Ottawas, Chippaways, Pattawatimas, Miamis, Eel River, Weecas, Kickapoos, Piankashaws and Kaskaskias, concluded at Greenville, August 3 1795
- Treaty of peace and amity between the Dey of Algiers and the United States, concluded September 5. *Ib.*
- Treaty of friendship, limits and navigation between the United States and the King of Spain, done at San Lorenzo, October 27. *Ib.*
- Additional and explanatory articles of a treaty of amity, commerce and navigation between G. Britain and the United States, signed at Philadelphia, May 4. *Ib.*
- Treaty between the United States and the French Republic, (Louisiana ceded to the United States) done at Paris, April 30 1802
- Convention between the United States and the French Republic, done at Paris, April 30. *Ib.*
- Treaty

- Treaty between the United States and the Delaware, Shawanoes, Pattawafimas, Miamis, Eel River, Weecas, Kickapoo, Piankashaws and Kaskaskias nations of Indians, made at Fort Wayne, on the Miami, June 7 1b.
- Treaty between the United States and the Kaskaskia tribe of Indians, concluded August 13 1b.
- Treaty between the United States and the Choctaw Indians, concluded at Washington, December 26 1b.
- Treaty between the United States and the Piankashaw tribe of Indians, done at Vincennes, August 27 1804
- Treaty between the United States and the Delaware tribe of Indians, done at Vincennes, August 18 1b.
- Treaty between the United States and the united tribes of Sac and Fox Indians, done at St. Louis, (Louisiana) November 3 1b.
- Additional article to the treaty between the United States and the Sac and Fox Indians, done at Washington, February 21 1805

# THE CONSTITUTION

## OF THE UNITED STATES.

WE, the People of the United States, in order to form a more perfect union, establish justice, insure domestic tranquillity, provide for the common defence, promote the general welfare, and secure the blessings of liberty to ourselves and our posterity—do ordain and establish this CONSTITUTION for the UNITED STATES OF AMERICA.

### ARTICLE I.

Sec. 1. All legislative powers herein granted shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives.

Sec. 2. The House of Representatives shall be composed of members chosen every second year by the people of the several states, and the electors in each state shall have the qualifications requisite for electors of the most numerous branch of the state legislature.

No person shall be a representative who shall not have attained to the age of twenty-five years, and been seven years a citizen of the United States, and who shall not, when elected, be an inhabitant of that state in which he shall be chosen.

Representatives and direct taxes shall be apportioned among the several states which may be included within this Union, according to their respective numbers, which shall be determined by adding to the whole number

ber of free persons, including those bound to service for a term of three years, and excluding Indians not taxed, three-fifths of all other persons. The actual enumeration shall be made within three years after the first meeting of the Congress of the United States, and within every subsequent term of ten years, in such manner as they shall by law direct. The number of representatives shall not exceed one for every thirty thousand, but each state shall have at least one representative; and until such enumeration shall be made, the state of New-Hampshire shall be entitled to chuse three, Massachusetts eight, Rhode-Island and Providence Plantations one, Connecticut five, New-York six, New-Jersey four, Pennsylvania eight, Delaware one, Maryland six, Virginia ten, North Carolina five, South Carolina five, and Georgia three.

When vacancies happen in the representation from any state, the Executive authority thereof shall issue writs of election to fill such vacancies.

The House of Representatives shall chuse their Speaker and other officers; and shall have the sole power of impeachment.

*Sect. 3.* The Senate of the United States shall be composed of two senators from each state, chosen by the legislature thereof, for six years; and each senator shall have one vote.

Immediately after they shall be assembled in consequence of the first election, they shall be divided as equally as may be into three classes. The seats of the senators of the first class shall be vacated at the expiration of the second year, of the second class at the expiration of the fourth year, and of the third class at the expiration of the sixth year, so that one-third may be chosen every second year; and if vacancies happen by resignation, or otherwise, during the recess of the legislature of any state, the Executive thereof may make temporary appointments until the next meeting of the legislature, which shall then fill such vacancies.

No person shall be a senator who shall not have attained to the age of thirty years, and been nine years a citizen of the United States, and who shall not, when elected,

shall be an inhabitant of that state for which he shall be chosen.

The Vice-President of the United States shall be President of the Senate; but shall have no vote unless they be equally divided.

The Senate shall choose their other officers, and also a President *pro tempore*, in the absence of the Vice-President, or when he shall exercise the office of President of the United States.

The Senate shall have the sole power to try all impeachments. When sitting for that purpose, they shall be on oath or affirmation. When the President of the United States is tried, the Chief Justice shall preside: And no person shall be convicted without the concurrence of two-thirds of the members present.

Judgment in cases of impeachments shall not extend further than to removal from office, and disqualification to hold and enjoy any office of honor, trust or profit under the United States; but the party convicted shall nevertheless be liable and subject to indictment, trial, judgment and punishment, according to law.

SECT. 4. The times, places and manner of holding elections for senators and representatives, shall be prescribed in each state by the legislature thereof: but the Congress may at any time by law make or alter such regulations, except as to the places of choosing Senators.

The Congress shall assemble at least once in every year, and such meeting shall be on the first Monday in December, unless they shall by law appoint a different day.

SECT. 5. Each house shall be the judge of the elections, returns and qualifications of its own members; and a majority of each shall constitute a quorum to do business; but a smaller number may adjourn from day to day, and may be authorized to compel the attendance of absent members, in such manner, and under such penalties as each house may provide.

Each house may determine the rules of its proceedings; punish its members, for disorderly behavior, and with the concurrence of two-thirds, expel a member.

Each house shall keep a journal of its proceedings,

and from time to time publish the same, excepting such parts as may in their judgment require secrecy; and the yeas and nays of the members of either house on any question shall, at the desire of one-fifth of those present, be entered on the journal.

Neither house, during the session of Congress, shall without the consent of the other, adjourn for more than three days, nor to any other place than that in which the two houses shall be sitting.

*Sect. 6.* The senators and representatives shall receive a compensation for their services, to be ascertained by law, and paid out of the treasury of the United States. They shall in all cases, except treason, felony and breach of peace, be privileged from arrest during their attendance at the session of their respective houses, and in going to and returning from the same; and for any speech or debate in either house, they shall not be questioned in any other place.

No senator or representative shall, during the time for which he was elected, be appointed to any civil office under the authority of the United States, which shall have been created, or the emoluments whereof shall have been increased during such time; and no person holding any office under the United States, shall be a member of either house during his continuance in office.

*Sect. 7.* All bills for raising revenue shall originate in the House of Representatives; but the Senate may propose or concur with amendments as on other bills.

Every bill which shall have passed the House of Representatives and the Senate, shall, before it become a law, be presented to the President of the United States; if he approve he shall sign it, but if not he shall return it, with his objection, to that house in which it shall have originated, who shall enter the objection at large on their journal, and proceed to reconsider it. If after such reconsideration two-thirds of that house shall agree to pass the bill, it shall be sent, together with the objections, to the other house, by which it shall likewise be reconsidered, and if approved by two-thirds of that house, it shall become a law. But in all such cases the

votes of both houses shall be determined by yeas and nays, and the names of the persons voting for and against the bill shall be entered on the journal of each house respectively. If any bill shall not be returned by the President within ten days (Sundays excepted) after it shall have been presented to him, the same shall be a law, in like manner as if he had signed it, unless the Congress by their adjournment prevent its return, in which case it shall not be a law.

Every order, resolution, or vote, to which the concurrence of the Senate and House of Representatives may be necessary (except on a question of adjournment) shall be presented to the President of the United States; and before the same shall take effect, shall be approved by him, or, being disapproved by him shall be re-passed by two-thirds of the Senate and House of Representatives, according to the rules and limitations prescribed in the case of a bill.

*Sect. 8.* The Congress shall have power,

To lay and collect taxes, duties, imposts and excises, to pay the debts and provide for the common defence and general welfare of the United States; but all duties, imposts and excises, shall be uniform thro'out the United States :

To borrow money on the credit of the United States :

To regulate commerce with foreign nations, and among the several states, and with the Indian tribes :

To establish an uniform rule of naturalization, and uniform laws on the subject of bankruptcies thro'out the United States :

To coin money, regulate the value thereof, and of foreign coin, and fix the standard of weights and measures :

To provide for the punishment of counterfeiting the securities and current coin of the United States :

To establish post-offices and post-roads :

To promote the progress of science and useful arts, by securing for limited times, to authors and inventors, the exclusive right to their respective writings and discoveries :

To constitute tribunals inferior to the supreme court :



To define and punish piracies and felonies committed on the high seas, and offences against the law of nations :

To declare war, grant letters of marque and reprisal, and make rules concerning captures on land and water :

To raise and support armies; but no appropriation of money to that use shall be for a longer term than two years :

To provide and maintain a navy :

To make rules for the government of the land and naval forces :

To provide for calling forth the militia to execute the laws of the Union, suppress insurrections and repel invasions :

To provide for organizing, arming, and disciplining the militia, and for governing such part of them as may be employed in the service of the United States, reserving to the states respectively the appointment of the officers, and the authority of training the militia according to the discipline prescribed by Congress :

To exercise exclusive legislation in all cases whatsoever, over such district (not exceeding ten miles square) as may by cession of particular states, and the acceptance of Congress, become the seat of the government of the United States, and to exercise like authority over all places purchased by the consent of the legislature of the state in which the same shall be, for the erection of forts, magazines, arsenals, dock-yards, and other needful buildings :—And to make all laws which shall be necessary and proper for carrying into execution the foregoing powers, and all other powers vested by this Constitution in the government of the United States, or in any department or officer thereof.

*Sect. 9.* The migration or importation of such persons as any of the states now existing shall think proper to admit, shall not be prohibited by the Congress prior to the year one thousand eight hundred and eight ; but a tax or duty may be imposed on such importation, not exceeding ten dollars for each person.

The privilege of the writ of *habeas corpus* shall not be suspended, unless when in cases of rebellion or invasion the public safety may require it.

No

No bill of attainder or *ex post facto* law shall be passed.

No capitation, or other direct tax shall be laid, unless in proportion to the *census* or enumeration herein before directed to be taken.

No tax or duty shall be laid on articles exported from any state. No preference shall be given by any regulation of commerce or revenue to the ports of one state over those of another : Nor shall vessels bound to, or from one state, be obliged to enter, clear, or pay duties in another.

No money shall be drawn from the treasury, but in consequence of appropriations made by law ; and a regular statement and account of the receipts and expenditures of all public money shall be published from time to time.

No title of nobility shall be granted by the United States : and no person holding any office of profit or trust under them, shall, without the consent of the Congress, accept of any present, emolument, office, or title, of any kind whatever, from any king, prince, or foreign state.

*Sect. 10.* No state shall enter into any treaty, alliance or confederation ; grant letters of marque or reprisal ; coin money ; emit bills of credit ; make any thing but gold or silver coin a tender in payment of debts ; pass any bill of attainder, *ex post facto* law, or law impairing the obligation of contracts, or grant any title of nobility.

No state shall, without the consent of the Congress, lay any imposts or duties on imports or exports, except what may be absolutely necessary for executing its inspection laws ; and the neat produce of all duties and imposts, laid by any state on imports or exports, shall be for the use of the treasury of the United States ; and all such laws shall be subject to the revision and control of the Congress. No state shall, without the consent of Congress, lay any duty of tonnage, keep troops, or ships of war in time of peace, enter into any agreement or compact with another state, or with a foreign power, or engage in war, unless actually invaded, or in such imminent danger as will not admit of delay.

## ARTICLE II.

*Sect. 1.* The executive power shall be vested in a President of the United States of America. He shall hold his office during the term of four years, and, together with the Vice-President, chosen for the same term, be elected as follows :

Each state shall appoint, in such manner as the legislature thereof may direct, a number of electors, equal to the whole number of senators and representatives to which the state may be entitled in the Congress : But no senator or representative, or person holding an office of trust or profit under the United States, shall be appointed an elector.

The electors shall meet in their respective states, and vote by ballot for two persons, of whom one at least shall not be an inhabitant of the same state with themselves. And they shall make a list of all the persons voted for, and of the number of votes for each ; which list they shall sign and certify, and transmit sealed to the seat of the government of the United States, directed to the President of the Senate. The President of the Senate shall, in the presence of the Senate and House of Representatives, open all the certificates, and the votes shall then be counted. The person having the greatest number of votes shall be the President, if such number be a majority of the whole number of electors appointed ; and if there be more than one who have such majority, and have an equal number of votes, then the House of Representatives shall immediately chuse by ballot one of them for President ; and if no person have a majority, then from the five highest on the list the said house shall in like manner chuse the President. But in chusing the President, the votes shall be taken by states, the representation from each state having one vote ; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. In every case, after the choice of the President, the person having the greatest number of votes of the electors shall be the Vice-President.

But

But if there shall remain two or more who have equal votes, the Senate shall chuse from them by ballot the Vice-President.

The Congress may determine the time of chusing the electors, and the day on which they shall give their votes; which day shall be the same throughout the United States.

No person except a natural born citizen, or a citizen of the United States, at the time of the adoption of the constitution, shall be eligible to the office of President; neither shall any person be eligible to that office who shall not have attained to the age of thirty-five years, and been fourteen years a resident within the United States.

In case of the removal of the President from office, or of his death, resignation, or inability to discharge the powers and duties of the said office, the same shall devolve on the Vice-President, and the Congress may by law provide for the case of removal, death, resignation, or inability, both of the President and Vice-President, declaring what officer shall then act as President, and such officer shall act accordingly, until the disability be removed, or a President shall be elected.

The President shall, at stated times, receive for his services, a compensation, which shall neither be increased nor diminished during the period for which he shall have been elected, and he shall not receive within that period any other emolument from the United States, or any of them.

Before he enters on the execution of his office, he shall take the following oath or affirmation:

"I do solemnly swear (or affirm) that I will faithfully execute the office of President of the United States, and will to the best of my ability, preserve, protect and defend the constitution of the United States."

*Sec. 2.* The President shall be commander in chief of the army and navy of the United States, and of the militia of the several states when called into the actual service of the United States; he may require the opinion, in writing, of the principal officer in each of the executive departments, upon any subject relating to the

the duties of their respective offices, and he shall have power to grant reprieves and pardons for offences against the United States, except in cases of impeachment.

He shall have power, by and with the advice and consent of the Senate, to make treaties, provided two-thirds of the Senators present concur: and he shall nominate, and by and with the advice and consent of the Senate shall appoint, ambassadors, other public ministers and consuls, judges of the supreme court, and all other officers of the United States, whose appointments are not herein otherwise provided for, and which shall be established by law. But the Congress may by law vest the appointment of such inferior officers, as they think proper in the President alone, in the courts of law, or in the heads of departments.

The President shall have power to fill up all vacancies that may happen during the recess of the Senate, by granting commissions which shall expire at the end of the next session.

*Sect. 3.* He shall from time to time give the Congress information of the state of the Union, and recommend to their consideration such measures as he shall judge necessary and expedient; he may, on extraordinary occasions, convene both houses, or either of them, and in case of disagreement between them, with respect to the time of adjournment, he may adjourn them to such time as he shall think proper; he shall receive ambassadors and other public ministers: he shall take care that the laws be faithfully executed, and shall commission all the officers of the United States.

*Sect. 4.* The President, Vice-President and all civil officers of the United States shall be removed from office on impeachment for, and conviction of, treason, bribery, or other high crimes and misdemeanors.

### ARTICLE III.

*Sect. 1.* The judicial power of the United States, shall be vested in one supreme court, and in such inferior courts as the Congress may from time to time ordain

tain and establish. The judges, both of the supreme and inferior court, shall hold their offices during good behavior, and shall at stated times, receive for their services, a compensation, which shall not be diminished during their continuance in office.

*Sect. 2.* The judicial power shall extend to all cases, in law and equity, arising under this constitution, the laws of the United States, and treaties made, or which shall be made, under their authority; to all cases affecting ambassadors, or other public ministers and consuls; to all cases of admiralty and maritime jurisdiction; to controversies to which the United States shall be a party; to controversies between two or more states; between a state and citizens of another state; between citizens of different states; between citizens of the same state claiming lands under grants of different states, and between a state, or the citizens thereof, and foreign states, citizens or subjects.

In all cases affecting ambassadors, other public ministers and consuls, and those in which a state shall be a party, the supreme court shall have original jurisdiction. In all the other cases before mentioned, the supreme court shall have appellate jurisdiction, both as to law and fact, with such exceptions, and under such regulations as the Congress shall make.

The trial of all crimes, except in cases of impeachment, shall be by jury: and such trial shall be held in the state where the said crimes shall have been committed; but when not committed within any state, the trial shall be at such place or places as the Congress may by law have directed.

*Sect. 3.* Treason against the United States, shall consist only in levying war against them, or in adhering to their enemies, giving them aid and comfort. No person shall be convicted of treason unless on the testimony of two witnesses to the same overt act, or on confession in open court.

The Congress shall have power to declare the punishment of treason, but no attainder of treason shall work corruption of blood, or forfeiture, unless during the life of the person attainted.

## ARTICLE IV.

*Sect. 1.* Full faith and credit shall be given in each state to the public acts, records and judicial proceedings of every other state. And the Congress may by general laws prescribe the manner in which such acts, records and proceedings shall be proved and the effect thereof.

*Sect. 2.* The citizens of each state shall be entitled to all the privileges and immunities of citizens in the several states.

A person charged in any state with treason, felony, or other crime, who shall flee from justice, and be found in another state, shall, on demand of the executive authority of the state from which he fled, be delivered up to be removed to the state having jurisdiction of the crime.

No person held to service or labor in one state, under the laws thereof, escaping into another, shall, in consequence of any law or regulation therein, be discharged from such service or labor, but shall be delivered up on claim of the party to whom such service or labor may be due.

*Sect. 3.* New states may be admitted by the Congress into this union: but no new state shall be formed or erected within the jurisdiction of any other state, nor any state be formed by the junction of two or more states or parts of states, without the consent of the legislatures of the states concerned as well as of the Congress.

The Congress shall have power to dispose of and make all needful rules and regulations respecting the territory or other property belonging to the United States; and nothing in this constitution shall be so construed as to prejudice any claims of the United States, or of any particular state.

*Sect. 4.* The United States shall guarantee to every state in this union, a republican form of government, and shall protect each of them against invasion, and on application of the legislature, or of the executive (when the legislature cannot be convened) against domestic violence.

Article

## ARTICLE V.

The Congress, whenever two-thirds of both houses shall deem it necessary, shall propose amendments to this constitution, or, on the application of the legislatures of two-thirds of the several states, shall call a convention for proposing amendments, which, in either case, shall be valid, to all intents and purposes, as part of this constitution, when ratified by the legislatures of three-fourths of the several states, or by conventions of three-fourths thereof, as the one or the other mode of ratification may be proposed by the Congress; provided, that no amendment, which may be made prior to the year one thousand eight hundred and eight, shall in any manner affect the first and fourth clauses in the ninth section of the first article: and that no state, without its consent, shall be deprived of its equal suffrage in the Senate.

## ARTICLE VI.

All debts contracted, and engagements entered into, before the adoption of this constitution, shall be as valid against the United States, under this constitution, as under the confederation.

This constitution, and the laws of the United States which shall be made in pursuance thereof, and all treaties made, or which shall be made, under the authority of the United States, shall be the supreme law of the land; and the judges in every state shall be bound thereby, any thing in the constitution or laws of any state to the contrary notwithstanding.

The Senators and Representatives before mentioned, and the members of the several state legislatures, and all the executive and judicial officers, both of the United States and of the several states, shall be bound by oath or affirmation, to support this constitution; but no religious test shall be required as a qualification to any office or public trust under the United States.

## ARTICLE VII.

The ratification of the conventions of nine states shall be sufficient for the establishment of this constitution between the states so ratifying the same.

Amendments



## AMENDMENTS

### ARTICLE I.

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the government for a redress of grievances.

### ARTICLE II.

A well regulated militia being necessary to the security of a free state, the right of the people to keep and bear arms shall not be infringed.

### ARTICLE III.

No soldier shall, in time of peace, be quartered in any house without the consent of the owner; nor in time of war, but in manner to be prescribed by law.

### ARTICLE IV.

The right of the people to be secure in their persons, houses, papers and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue, but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

### ARTICLE V.

No person shall be held to answer for a capital or otherwise infamous crime, unless on a presentment or indictment of a grand jury, except in cases arising in the land or naval forces, or in the militia when in actual service in time of war or public danger; nor shall any person be subject for the same offence to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case, to be witness against himself; nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use without just compensation.

### ARTICLE VI.

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury.

jury, of the state and district wherein the crime shall have been committed; which district shall have been previously ascertained by law; and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor; and to have the assistance of counsel for his defence.

#### ARTICLE VII.

In suits at common law, where the value in controversy shall exceed 20 dollars, the right of trial by jury shall be preserved: and no fact tried by jury, shall be otherwise re-examined in any court of the United States, than according to the rules of the common law.

#### ARTICLE VIII.

Excessive bail shall not be required; nor excessive fines imposed; nor cruel and unusual punishments inflicted.

#### ARTICLE IX.

The enumeration in the constitution of certain rights shall not be construed to deny or disparage others retained by the people.

#### ARTICLE X.

The powers not delegated to the United States by the constitution, nor prohibited by it to the states, are reserved to the states respectively or to the people.

#### ARTICLE XI.

The judicial power of the United States shall not be construed to extend to any suit in law or equity, commenced or prosecuted against one of the United States by citizens of another state, or by citizens or subjects of any foreign state.

#### ARTICLE XII.

In lieu of the third paragraph of the first section of the second article of the constitution of the United States, the following shall be valid to all intents and purposes, as part of the said constitution, to wit:

The electors shall meet in their respective states, and vote by ballot for President and Vice-President, one of whom, at least, shall not be an inhabitant of the same state with themselves; they shall name in their ballots the person voted for as President, and in distinct bal-

lots the person voted for as Vice-President, and they shall make distinct lists of all persons voted for as President, and of all persons voted for as Vice-President, and of the number of votes for each, which lists they shall sign and certify, and transmit sealed to the seat of the government of the United States, directed to the President of the Senate; the President of the Senate shall, in the presence of the Senate and House of Representatives, open all the certificates and the votes shall then be counted; the person having the greatest number of votes for President shall be the President, if such number be a majority of the whole number of electors appointed; and if no person have such majority, then from the persons having the highest numbers not exceeding three on the list of those voted for as President, the House of Representatives shall chuse immediately, by ballot, the President. But in chusing the President the votes shall be taken by states, the representation from each state having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. And if the House of Representatives shall not chuse a President, whenever the right of choice shall devolve upon them, before the fourth of March next following, then the Vice-President shall act as President, as in the case of the death or other constitutional disability of the President.

The person having the greatest number of votes as Vice-President shall be the Vice-President, if such number be a majority of the whole number of electors appointed, and if no person have a majority, then from the two highest numbers on the list the Senate shall chuse the Vice-President; a quorum for the purpose shall consist of two-thirds of the whole number of Senators, and a majority of the whole number shall be necessary to a choice.

But no person constitutionally ineligible to the office of President shall be eligible to that of Vice-President of the United States.

Precedents.

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## PRECEDENTS IN WRITING.

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### RECEIPTS.

§ 20 25.

Received, May 14th, 1807, of A. B. twenty dollars  
and twenty-five cents, in full of all demands to this date.  
C. D.

§ 3 44

Received, of C. D. three dollars and forty-  
four cents, in part pay. J. B.

§ 10

Received, of G. P. ten dollars, in full, for  
one quarter's rent for a story house or mes-  
suage, which he the said G. P. now occupies, situated  
in street, number A. B.

§ 50

Received, of B. C. by the hand of A. D.  
fifty dollars, in full, for certain goods, &c. bought by the  
said B. C. of me, T. V.

§ 77 21

Received, of A. B. seventy-seven dollars  
and twenty-one cents, in full of all demands, whether of  
book, note, bond, or otherwise, to this date, C. D.

§ 3

Received, of E. F. three dollars, in full, for  
one year's interest of due to me on bond  
from the said E. F. C. P.

§ 40

Received, forty dollars, on the within  
note. A. B.  
Note.

*Note.* This last receipt must be wrote on the back of a note or obligation.

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## ORDERS.

\$ 20 50

Sir,

Please to pay P. M. twenty dollars and fifty cents,  
and oblige  
Mr. C. D. A. B.

\$ 25 15

On sight pay A. B. twenty-five dollars and fifteen cents, and this shall be your receipt for the same.

Mr. E. F.

C. D.

\$ 25

Sir,

By paying A. B. twenty-five dollars, and placing it to my account, you will oblige, yours, &c.

Mr. J. T.

C. D.

\$ 500

On sight pay A. B. five hundred dollars, and this shall be your discharge from

Mr. T. V.

C. D.

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## BILLS OF EXCHANGE.

*Note.* Bills are payable five ways, viz.

1st. On sight.

2d. At so many days after sight.

3d. At Usance, or a certain length of time agreed on between the two places.

4th, At double Usance, which is double the time agreed on between the two places.

5th. Marts or Fairs, which is to be understood at some certain days, accounted for fairs in the same places where the bills are made payable.

There are days allowed in some places which are called days of grace, viz. at London three, at other places

places more, at some, none. But where those days are allowed, the bill must be demanded on the last day, and if not paid then, it must immediately be protested.

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**SAG-HARBOR ON LONDON.**

Sag-Harbor, June 27th, 1808, for \$20,000 at 54d. sterling, per dollar, at Usance.

At Usance, pay this my first Bill of Exchange, to E. J. or order, twenty thousand dollars, at fifty-four pence, sterling, per dollar, value received, and place it to the account of your humble servant,

H. D.

To D. H. Merchant, London.

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**SAG-HARBOR ON LONDON.**

Sag-Harbor, July 30th, 1808, for \$10,000. at 54d. sterling, per dollar.

At sight, pay this my second Bill of Exchange, my first not paid, to A. B. or order, ten thousand dollars, at fifty-four pence sterling, per dollar, value received, and place it to account, as per advice of your humble servant,

C. D.

To S. C. Merchant, London.

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**NEW-LONDON ON LIVERPOOL.**

New-London, May 14th, 1808, for \$3560 at 54d. sterling, per dollar.

Twenty days after sight, pay this my third Bill of Exchange, my first and second not paid, to D. F. or order, three thousand five hundred and sixty dollars, at fifty-four pence, sterling, per dollar, value received, and charge the same without further advice to your humble servant,

A. B.

To C. D. Merchant, London.

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**NAPLES ON SAG-HARBOR.**

Naples, March 14th, 1808, for 5000 Ducats, at 75 cents, per Ducat.

Thirty days after sight, pay this my first Bill of Exchange to A. B. or order, five thousand Ducats, at seventy-five cents, per ducat, value received, and place it to the account of your humble servant,

C. D.

To T. G. Merchant, Sag-Harbor.

**BILL OF LADING.**

Shipped in good order by B. D. on board the good ship C. D. master, now at anchor in the port of and bound for the first fair wind, the following, that is to say, twenty puncheons of rum, ten hogsheads of sugar, the same being marked and

E. F. No. 1. a 20. numbered as in the margin, and are  
 E. F. No. 2. a 20. to be delivered in like good order to A. B. or his assigns, at the port of aforesaid, he or they paying freight, primage and average accustomed for said goods, (the dangers of the seas excepted). In witness whereof, the said master hath affirmed to three bills of lading, of this tenor and date, one of which being accomplished, the other two to be void and of none effect.

C. D.

**BILLS OF SALE.***A Bill of Sale of a Ship or other Vessel.*

Know all men by these presents, that I, A. B. for and in consideration of dollars to me in hand well and truly paid, at or before the sealing and delivery of these presents, the receipt whereof I do hereby acknowledge have granted, bargained and sold, and by these presents do grant, bargain, sell and deliver unto B. A. his executors, administrators, or assigns, the whole of the good ship or vessel called the of of the burthen of tons, together with all the masts, sails, yards, anchors, cables, ropes, boats, oars, tackle, apparel and furniture to the said ship or vessel belonging or in anywise appertaining thereunto; to have and to hold the said ship or vessel, and all the said premises hereby granted, bargained and sold unto the said B. A. his executors, administrators, or assigns, forever, as his and their own proper goods and use. And I the said A. B.

do

do for myself, executors and administrators, covenant, promise and agree to and with the said B. A. his executors, administrators and assigns, that I the said A. B. at the time of the sealing and delivery of these presents, am the true and lawful owner and proprietor of the said ship or vessel and premises hereby granted, bargained and sold to the said B. A. his executors, administrators and assigns as aforesaid, and that I the said A. B. at the time of the sealing and delivery thereof, had in myself full power and authority in law to grant, bargain and sell the said ship or vessel and premises as above bargained and sold unto the said B. A. his executors or administrators and assigns aforesaid, and also that it shall and may be lawful for the said B. A. his executors, administrators and assigns, at all times hereafter, quietly and peaceably to hold, possess and enjoy the said ship or vessel, and all the other premises hereby granted or mentioned, without trouble, denial, hinderance or disturbance whatsoever, of me the said A. B. my executors, administrators or assigns, or of any other person or persons whatsoever lawfully claiming by, from or under me, and that the said ship or vessel, and the other said premises hereby granted and sold are freed and discharged from all former and other bargains, sales and incumbrances made or done by me the said A. B. or any other person or persons by my order, consent or procurement. In witness whereof, I the said A. B. have hereunto set my hand and seal, this            day of            in the year of our Lord one thousand eight hundred and            A. B. (seal)

Signed, sealed and delivered }  
in the presence of us }  
T. P.  
N. C.

GOODS.

Know all men by these presents, that I, A. B. of the town of            and county of            for the consideration of            dollars to me paid by B. D. of the town and county aforesaid, the receipt whereof I do hereby acknowledge, have bargained, sold and delivered, and do by



by these presents, sell and deliver unto the said B. D. (here insert the property, taking care to be particular in describing it) to have and to hold the said bargained (watch or as the same may be) unto him the said B. D. his heirs or assigns, I the said A. C. for myself, executors and administrators, do warrant and defend the same unto him the said B. D. his heirs or assigns, against all claims and demands whatsoever. In witness whereof, &c.

Know all men by these presents, that I, G. H. of the town of            in the county of            and state of            for and in consideration of the sum of            dollars, to me paid by A. C. of the town, county and state aforesaid, at the sealing and delivery of these presents, the receipt whereof I do hereby acknowledge, have bargained and sold, and by these presents do bargain, sell and deliver unto the said A. C. his executors, administrators and assigns, (here insert the property sold) to have and to hold all and singular the said            and the other premises above-mentioned, to him the said A. C. his executors, administrators and assigns forever, and I the said G. H. do for myself, heirs, executors and administrators, all and singular, warrant and defend the said goods forever unto the said A. C. his heirs, executors, administrators and assigns, firmly by these presents, all and singular the said goods, of which I the said G. H. have put the said A. C. in full possession, by delivering unto him the said A. C. one silver tankard at the sealing and delivering of these presents in the name of the whole premises as above written. In witness whereof, I have hereunto set my hand and seal, &c.

Be it remembered, that on the day and year above written, livery and seizen of the goods above mentioned were sold and delivered by the said G. H. to him the said A. C. by delivering to the said A. C. one silver tankard, in the name of the whole premises sold and delivered in the presence of us

*Note.* The goods mentioned in a bill of sale must be delivered either the whole or in part, to make the contract valid.

**Notes.**

NOTES.

§ 40

On demand, for value received, I promise to pay  
A. B. forty dollars with interest, as witness my hand a t  
this day of 1808. C. D.  
In presence of

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§ 50 25

Sixty days after date, for value received, I promise  
to pay A. B. fifty dollars and twenty-five cents, with in-  
terest, as witness my hand, &c.

---

§ 70

Nine months after date, for value received, we the  
subscribers, jointly and severally promise to pay B. C.  
seventy dollars with interest, as witness our hands, &c.

In presence of

I. B.

N. P.

A. B.

D. C.

---

§ 20 00

Six months after date, for value received I pro-  
mise to pay B. C. or order, twenty dollars, with inter-  
est, as witness my hand, &c.

---

§ 60 50

Ten months after date, for value received I pro-  
mise to pay T. F. sixty dollars and fifty cents, with in-  
terest, as witness my hand and seal, I. B. (seal)

In presence of

A. B.

C. D.

Sag-Harbor, 14 May, 1808.

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§ 400 00

S—, May —, 1808.

For value received I promise to pay I. M. four  
hundred dollars, at the Bank of New-York, in sixty  
days from this date. A. B.

In presence of, &c.

Due

**DEE HILLS:**

**\$ 50 00**

Due to N. O. Fifty dollars, for value received, as  
witness my hand, A. B.

March 14, 1808.

**§ 20**

I owe A. B. twenty dollars.

**C. P.**

May 10, 1898.

**\$ 70 50**

Due to the firm of C. & D. seventy dollars and  
fifty cents. A. B.

May 20th 1808.

## CONDITIONAL BONDS.

Know all men by these presents, that I, A. B. of  
in the county of \_\_\_\_\_ am held and firmly bound to  
C. D. of \_\_\_\_\_ in one hundred dollars and fifty cents,  
to be paid to the said C. D. or his attorney, executors,  
administrators or assigns; to which payment well and  
truly to be made, I bind myself, my heirs, executors  
and administrators, firmly by these presents, sealed  
with my seal. Dated the ninth day of \_\_\_\_\_ in the  
year of our Lord one thousand eight hundred and eight.  
The condition of the above obligation is such, that if  
the said A. B. his heirs, executors or administrators,  
do and shall well and truly pay, or cause to be paid, un-  
to the said C. D. his executors, administrators or as-  
signs, fifty dollars and twenty-five cents, with interest,  
on or before the ninth day of \_\_\_\_\_ next ensuing the  
date hereof, then this obligation to be void, or other-  
wise to be and remain in full force and virtue.

**A. B. (seal)**

**Signed, &c.**

Know all men by these presents, that we, A. B. of  
&c. C. D. of &c. and E. F. of &c. are held and firmly  
bound unto G. H. Esq. sheriff of the county of  
aforesaid, in the sum of                  dollars, to be paid to the  
said

said sheriff, his executors, administrators or assigns, for which payment, well and truly to be made, we bind ourselves, and each of us by himself, for and in the name of the whole, our heirs, executors and administrators, and each of us firmly by these presents, sealed with our seals, this       day of       in the year of our Lord,

The condition of the above obligation is such, that if the above bound A. B. does appear before the court of       which is to be holden at       within and for the said county of       on the       Tuesday of       next, to answer to L. K. of &c. in a plea of       and shall abide the order and judgment of the said court thereon, then this obligation to be void, otherwise to be and remain in full force and virtue.

Signed, &c.

### SPECIAL BONDS.

~~A. Know~~ all men by these presents, that I, N. O. of       in the county of       am held and firmly bound to G. H. of       in the sum of       dollars, to be paid to the said G. H. his heirs, executors, administrators, or assigns; to which payment well and truly to be made, I bind myself, my heirs, executors and administrators, firmly by these presents, sealed with my seal. Dated the       day of       in the year of our Lord, one thousand, &c.

The condition of this obligation is such, that if the above bound N. O. his heirs, executors or administrators, do and shall well and truly pay, or cause to be paid to the said G. H. his executors, administrators or assigns, the full sum of       dollars in manner following, that is to say, the sum of       dollars, part thereof, on or before the       day of       next ensuing, the date above mentioned; the sum of       dollars more thereof, on or before the       day of       then next following, and the last payment (which makes out the whole sum thereof) on or before the       day of       which shall be in the year of our Lord       without fraud or covin, then this obligation to be void. But if default shall be made, of or in payment of any of the       said

said several and respective sums abovementioned, or any part thereof, on any of the said several and respective days and times above limited for the payment of the same, then this obligation to be and remain in full force and virtue.

Signed, &c.

### A COUNTER BOND.

Know all men by these presents, that I, A. C. of \_\_\_\_\_ in the county of \_\_\_\_\_ am held and firmly bound to N. B. of \_\_\_\_\_ in the sum of \_\_\_\_\_ dollars, to be paid to the said A. C. his heirs, executors, administrators or assigns, to which payment well and truly to be made, I bind myself, my heirs, executors and administrators, firmly by these presents, sealed with my seal. Dated the \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord, &c.

The condition of this obligation is such, that whereas the above named N. B. at the special instance and request, and for the only proper debt of the above bound A. C. together with the said A. C. is, in and by one bond or obligation, bearing equal date with the obligation above written, held and firmly bound unto G. H. of \_\_\_\_\_ in the county of \_\_\_\_\_ in the penal sum of \_\_\_\_\_ dollars, conditioned for the payment of

Dollars, with interest for the same, on the \_\_\_\_\_ day of \_\_\_\_\_ next ensuing the date of the said in part recited obligation, as in and by the said in part recited bond, with the condition there underwritten, may more fully appear; if therefore the said A. C. his heirs, executors or administrators, do and shall well and truly pay, or cause to be paid unto the said G. H. his executors, administrators or assigns, the said sum of \_\_\_\_\_ dollars, with interest for the same, on the said \_\_\_\_\_ day of \_\_\_\_\_ next ensuing the date of the said in part recited obligation, according to the intent and meaning and in full discharge of the said in part recited bond or obligation, then, &c. otherwise, &c.

Articles

## ARTICLES OF AGREEMENT.

Articles of agreement, indented, made and concluded the            day of            in the year of our Lord one thousand eight hundred and            by and between A. B. of            in the county of            on one part, and T. C. of &c. on the other part, witnesseth that the said A. B. for the consideration hereafter mentioned, hath agreed and doth hereby covenant and agree, that            and the said T. C. on his part doth hereby covenant and agree, &c.

To the true and faithful performance of the several covenants and agreements aforesaid, the parties aforesaid do hereby respectively bind themselves and their respective heirs, executors and administrators, each to the other, his executors and administrators, in the penal sum of            dollars, and in testimony whereof, they have hereunto\* set their hands and seals, the day and year above mentioned.

A. B. (L. S.)

T. C. (L. S.)

Signed, sealed and delivered }  
in the presence of }

\* When there are two drafts drawn, one for each party, the word *interchangeably* must be inserted here.

## DEEDS.

To all people to whom these presents shall come, greeting: Know ye that I, D. R. of the town of            in the county of            and state of            for the consideration of            dollars to me in hand well and truly paid by A. B. of said town and county, at or before the sealing and delivery of these presents, the receipt whereof I do hereby acknowledge have granted, bargained and sold, aliened, released and confirmed, and by these presents, do give, grant, bargain and sell, alien, release and confirm unto the said A. B. (here describe the premises) to have and to hold the above granted and bargained premises, with the appurtenances thereof, unto him the said A. B. his heirs and assigns forever, to his and their own proper use and behoof, and also I the said D. R. do and for myself, my heirs, executors

Z

and

and administrators, covenant with the said A. B. his heirs and assigns, that at and until the ensembling of these presents, I am well seized of the premises as a good indefeasible estate in fee simple, and have good right to bargain and sell the same in manner and form as is above written, and that the same is free of all incumbrances whatsoever, and furthermore, I the said D. R. do, and by these presents, bind myself and my heirs forever, to warrant and defend the above granted and bargained premises to him the said A. B. his heirs and assigns, against all claims and demands whatsoever. In witness whereof, I have hereunto set my hand and seal this       day of       in the year of our Lord one thousand eight hundred and eight. D. R. (L. S.)

Signed, sealed and delivered }  
in the presence of }

— County, ss. day and date above, personally appeared D. R. signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed. Before me

To all people to whom these presents shall come, greeting: Know ye that I, J. W. of the town of       in the county of       and state of       for the consideration of the sum of       dollars, received to my full satisfaction of L. P. of the town, county and state aforesaid, do give, grant, bargain, sell and confirm unto the said L. P. his heirs and assigns forever, one certain piece or parcel of land, lying and being in the town of       county of       and state of       (here insert the premises sold) to have and to hold the said granted and bargained premises, with all the appurtenances thereof, unto him the said L. P. his heirs and assigns, to his and their own proper use, benefit and behoof, and I the said J. W. do for myself, my heirs, executors, &c. covenant with the said L. P. his heirs and assigns, that at and until the ensembling of these presents, I am lawfully seized of the premises as a indefeasible estate in fee, and have good right to sell the same in manner as is above written, and that the same is free of all incumbrances, and that I will warrant and defend the said premises

unto the said L. P. his heirs and assigns forever,  
against all claims and demands whatsoever. In witness  
whereof, I have hereunto set my hand and seal, this  
day of 1808.

Signed, &c.

J. W. (L. S.)

### A QUIT-CLAIM DEED.

Know all men by these presents, that L. C. D. of the  
town of, &c. for the consideration of dollars, re-  
ceived to my full satisfaction of C. H. of the town of, &c.  
have remised, released, and forever quit-claimed unto  
him the said C. H. his heirs and assigns forever, (here  
insert the premises) to have and to hold the said pre-  
mises, with all the appurtenances thereof, unto him the  
said C. H. his heirs and assigns forever. In witness  
whereof, &c.

### A DEED OF PARTITION.

This indenture of three parts made and agreed on  
this day of in the year of our Lord  
between A. B. of &c. on the one part, C. D. of &c. on  
another part, and E. F. of &c. on the other part, wit-  
nesseth that whereas they the said A. B. C. D. and E. F.  
are seized in fee, and hold as tenants in common in  
shares (here insert the premises to be  
divided) and whereas the said parties have agreed and  
concluded to hold their respective parts of the said pre-  
mises in severalty, it is therefore covenanted and agreed  
by all and every of the said parties, for himself, his and  
their heirs, executors and administrators, and do hereby  
severally covenant and agree to and with the others,  
their respective heirs and assigns, that a partition of the  
same shall be and is hereby made and agreed to in man-  
ner and form following, that is to say, 1st. the said A. B.  
his heirs and assigns, shall henceforth have, hold and  
peaceably enjoy in severalty (here insert the part to be  
set off to A. B.) 2dly. that the said C. D. his heirs and  
assigns shall henceforth have, hold and peaceably enjoy  
in severalty (here insert the part to be set off to C. D.)  
3dly. that the said E. F. his heirs and assigns, shall  
henceforth have, hold and peaceably enjoy in severalty  
(here



(here insert the part to be set off to E. F.) and to each of the said parties, his heirs and assigns forever, the other of the said parties, the other two for themselves, their heirs, executors and administrators, respectively by these presents, do grant, release and confirm the said premises set off to each of the parties as aforesaid, as for his full share and part of the said premises: To have and to hold the same with all the appurtenances thereof, to his and their only use and behoof. And with each of the said parties his heirs executors and administrators covenant and agree that he shall from henceforth and forever peaceably enjoy the same, free of all claims and demands whatsoever of them or either of them, or of their heirs or assigns. In witness whereof we the said A. B. C. D. and E. F. have hereunto interchangeably set our hands and seals the day and year above written.

A. B. (l. s.)  
C. D. (l. s.)  
E. F. (l. s.)

*Signed, sealed and delivered  
in presence of*

## INDENTURE.

### *A Common Indenture, to bind an Apprentice.*

This Indenture, witnesseth, that T. C. of &c. hath put and placed, and by these presents doth put and bind out his son, I. C. and the said I. C. doth hereby put place and bind out himself, as an apprentice to A. B. to learn the art, trade, or mystery of. The said I. C. after the manner of an apprentice, to dwell with and serve the said A. B. from the day of the date hereof, until the day of which will be in the year of our Lord, one thousand eight hundred and at which time the said apprentice, (if he should be living) will be twenty-one years of age. During which term the said apprentice his said master faithfully shall serve, his secrets keep, his lawful commands at all times obey; he shall do no damage to his said master, nor wilfully suffer any to be done by others; and if any

to

to his knowledge be intended, he shall give his master seasonable notice thereof; he shall not waste the goods of his said master, nor lend them unlawfully to any; at cards, dice, or any other unlawful game, he shall not play; fornication he shall not commit, nor matrimony contract, during the said term. Taverns, or places of gaming he shall not frequent, from the service of his said master shall not absent himself; but in all things and at all times he shall behave himself as a good and faithful apprentice ought, during the whole term aforesaid. And the said A. B. on his part doth hereby covenant and agree to instruct the said apprentice, or cause him to be instructed in the art, trade or calling of a

by the best means he can. And also he further covenants to instruct the said apprentice, or cause him to be instructed, in a school of common education for the term of            quarters; and shall well and faithfully provide for the said apprentice, good and sufficient provisions, wearing apparel, lodging and other necessities, fit and convenient for such an apprentice during the term aforesaid, and at the expiration thereof, shall give unto the said apprentice two suits of wearing apparel, one suitable for the Lord's days, and the other for laboring days.

In witness whereof, we the said parties have hereunto interchangeably set our hands and seals, this day of            in the year of our Lord one thousand eight hundred and

T. C. (L. S.)  
I. C. (L. S.)  
A. B. (L. S.)

*Signed, sealed, and delivered  
in presence of*

## LEASES.

### *A Lease of a Farm.*

Know all men by these presents that I, D. F. of            in the county of, &c. for and in consideration of            Dollars, received to my full satisfaction of H. M. of &c. this            day of            in the year of our Lord one thousand eight hundred and            have demised and to farm

farm let, and do by these presents demise and to farm let, unto the said H. M. his heirs, executors, administrators and assigns, one certain piece of land, lying and being situated in said (here describe the boundaries) with a dwelling-house, barn, and out-house, standing thereon, for the term of                      from this date.

To have and to hold, use and occupy as to him the said H. M. his heirs, &c. shall seem proper. And the said D. F. doth further covenant with the said H. M. that he hath good right to let and demise the said premises as aforesaid, and he the said D. F. will suffer the said H. M. quietly to use, occupy and peaceably to enjoy the said premises, free and clear from all incumbrances whatsoever, during the time aforesaid. In witness whereof, &c.                      D. F.

*Signed, &c.*

*A Lease of Ground for building upon.*

This indenture, made the                      day of                      in the year of our Lord, one thousand eight hundred and                      between A. B. of &c. of one part, and E. F. of &c. of the other part, witnesseth, that the said A. B. for and in consideration of the rent, covenants and agreements herein after mentioned and reserved on the part and behalf of the said E. F. to be paid, &c. hath granted, demised, leased, and to farm letten, and by these presents doth grant, demise, lease, and to farm let unto the said E. F. his, &c. (here describe the premises.) To have and to hold the said piece of land above mentioned, unto the said E. F. his, &c. from &c. (here insert the time leased for) by paying the said A. B. his &c. the sum of                      dollars, to be paid, &c. provided nevertheless, and it is the true intent and meaning of these presents, and of the parties hereunto, that if it shall happen that the said rent of &c. hereby reserved, or any part thereof should be unpaid at the time whereon the same ought to be paid as aforesaid, (the same being first lawfully demanded) that then and from thenceforth it shall and may be lawful to and for the said A. B. his, &c. into and upon the said demised premises, with the appurtenances, in the name of the whole

whole, to re-enter, and the same to have again, re-possess and enjoy, as in his or their first and former estate or estates, and him the said E. F. his, &c., of the said demised premisses from thence utterly to expel, remove, and put out, any thing in these presents contained, to the contrary thereof in any wise notwithstanding. And the said E. F. for himself, his, &c. doth covenant and agree to and with the said A. B. his &c. that he the said E. F. his, &c. shall well and truly pay, or cause to be paid unto the said A. B. his, &c. the aforesaid rent of &c. at the time appointed for the payment thereof, according to the intent and meaning of these presents. And the said A. B. doth for himself, his &c. covenant and agree, to and with the said E. F. his &c. paying the rent as aforesaid, shall and may lawfully hold, occupy, and possess the said piece of land before granted and demised, during the said term of &c. hereinafore granted, without the lawful let, suit, trouble, or interruption, of or by him the said A. B. his &c. or of or by any other person or persons whomsoever, lawfully claiming, by, from or under him, them, or any of them, or by or with their or any of their privity, assent, consent, or procurement. In witness, &c.

## LETTERS OF ATTORNEY.

Know all men by these presents, that I, A. B. of, &c. for divers good causes me hereunto moving, have made, ordained, authorised and appointed, and by these presents do make, &c. C. D. of &c. my true and lawful attorney, for me and in my name, and for my own proper use, and benefit, to ask, demand, sue for, recover, and receive, of and from, &c. all such sum or sums which are now due and owing me the said A. B. by and from, &c. and to have use and take all lawful ways and means in my name, for the recovery thereof, &c. and to compound and agree for the same, and sufficient discharges for the same, for me, and in my name to make, seal and deliver, and to do all other lawful acts whatsoever concerning the premises, as fully as I myself might or could do, were I personally present at the doing

ing thereof; and attornies under him for the purposes aforesaid, to make, and again at his pleasure to revoke, ratifying and confirming, and by these presents allowing whatsoever my said attorney shall in my name lawfully do or cause to be done in and about, &c. by virtue of these presents. In witness whereof, &c.

A. B. (L. s.)

*Signed, &c.*

*A Warrant of Attorney.*

To all to whom these presents shall come. Know ye that I, N. B. of &c. in the county of &c. do hereby constitute and appoint M. S. of &c. in the county of &c. my attorney in all cases real, personal, and mixed, moved or to be moved for me or against me, in any court of law, in my name to appear, plead, and pursue unto final judgment and execution, with power of substitution. In witness whereof I hereunto set my hand and seal this       day of       N. B. (L. s.)

*Signed, &c.*

*A Letter of Attorney to let or sell real-estate.*

Know all men by these presents, that I, D. E. of &c. am seized in fee of all that (here insert the premises.) Now know ye that I, the said D. E. do make, constitute and appoint A. B. of &c. my lawful Attorney, for me and in my name to lease, let, sell or demise the said &c. to such person or persons, and for       years, and under such yearly rents as he shall think fit, or otherwise to sell, grant and convey the same absolutely in fee simple, for such a price and to such person or persons as he shall think fit, and in my name seal, execute and deliver such deeds and conveyances for the absolute sale and disposal thereof, hereby ratifying confirming and allowing all such leases, deeds, conveyances, &c. which shall at any time hereafter be sealed and executed by my said attorney touching the premises. In witness whereof I have hereunto set my hand and seal,       day of       in the       year of the Independence of the

the United States of America, and, in the year of our Lord, one thousand eight hundred and

D. E. (L. S.)

*Sealed and delivered in the presence of*

T. T.

G. H.

County ss. day and date above, personally appeared, D. E. signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed before me,

T. S. J. Peace.

—\*—  
**WILLS.**

In the name of God, Amen. I, J. B. of considering the uncertainty of this mortal life, and being weak in body, but of sound mind and memory, blessed be Almighty God for the same, do make and publish this my last will and testament, in manner and form following, (that is to say) I give and bequeath my soul to God who gave it, and my body to the dust, in full assurance of a general resurrection at the judgment day. Item: I give to my loving wife, P. B. the sum of dollars. I do also give and bequeath unto my eldest son, W. B. the sum of dollars. I do also give and bequeath unto my youngest son, B. B. his heirs and assigns, all that my messuage or tenement, situate lying and being in All the rest and residue of my goods, chattels, and personal estate whatsoever, I give to my said wife, P. B. and I make and ordain her my said wife sole executrix of this my last will and testament, hereby revoking all former wills by me made. In witness whereof I have hereunto set my hand and seal, the day of in the year of our Lord, one thousand eight hundred and

J. B. (L. S.)

*Signed, sealed, published, and declared by the said J. B. as and for his last Will and Testament, in the presence of us ; who at his request, in his pre-*

*sence*

*senos, and in the presence of each other, have subscribed our names as witnesses thereto.*

N. B.

T. C.

R. P.

### A SHORT WILL.

I, H. D. of            in the county of G. C. do make and ordain this my last Will and Testament, in manner and form following, viz. I give and bequeath to my eldest son, T. D. the sum of            dollars. I give and bequeath to my daughter, P. D. the sum of            dollars. All the rest and residue of my estate, goods, and chattels I give and bequeath to my beloved wife, S. D. whom I nominate, constitute and appoint sole executrix of this my last Will and Testament, hereby revoking all other and former wills by me at any time heretofore made. In witness whereof, I have hereunto set my hand and seal, the            day of            in the year of our Lord one thousand eight hundred and

H. D. (s. s.)

*Signed, sealed, published, and declared by the said Testator, H. D. as and for his last Will and Testament, in the presence of us, who have subscribed our names as witnesses thereto, in the presence of the said Testator.*

**FINIS.**

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## **SUBSCRIBERS' NAMES.**

---

### **A.**

Samuel Allen,  
Benjamin Avery,  
Zalmon Atwood,  
Samuel Allen,  
John Arnold,  
Aaron Avery,  
John Andrews,  
Henry Allen,  
Alanson Adkins,  
Samuel Andrews,  
Luman Andrews,  
Aroma Andrus,  
Orville Atkins,  
Thaddeus Austin,  
Zina Andrews,  
Benjamin Allyn,  
John B. Allyn,  
Joel Atkins,  
Thomas G. Alvard,  
Asa Andrews,  
John Avery,  
Joseph Anderson,  
Israel G. Atwater,  
Solomon Allen,  
Hezekiah Arnold,  
James Austin,  
Nathan A. Atwood,  
William Andrews,  
Isaac Andrews,  
Simeon P. Allyn.

### **B.**

John Baldwin, 2d.  
Dan Beach,

William Bennett,  
Thompson Bloss,  
Deborah Blois,  
Joseph Brooks,  
Stephen Barnes,  
Samuel Baldwin, 3d.  
Chandler Barker,  
Augustus Barker,  
Benjamin Bartholomew,  
Asa Beach,  
Asher S. Beach,  
Samuel Beach,  
Anson Bradley,  
Seth Barnes,  
Horace Barnes,  
Thomas Barnes, jun.  
Levi Bradly,  
William Boardman,  
Henry Baldwin,  
Henry Brainard,  
Ashbel Bradley,  
William Bradley,  
Nathan Bushnell,  
Daniel Bradley,  
William Bradley,  
James Bradley,  
Thomas Barnes,  
Abraham Barnes,  
Isaac Barnes,  
Ananias Baker,  
Henry Baker,  
Isaac Bayden,  
Joseph Beardslee,  
Simeon Brooks,



Amos Bradley, 3d  
 Amos Baldwin,  
 David Buel, 2d  
 Enos Barnes,  
 Benjamin Beckwith,  
 Jedediah Beebe,  
 Benjamin Bigelow,  
 Denison Brown,  
 Linas Blaksley,  
 Ransom Blakslee,  
 Barnabas Bates,  
 William Bowditch,  
 Samuel C. Bowditch,  
 Anthony Brown,  
 Philo T. Beardsley,  
 George Bristol,  
 Hull Bunnell,  
 Zebulon Byington,  
 Abel Bassett,  
 John Bassett,  
 Stephen Baker,  
 Jacob W. Brower,  
 Eliab Byram,  
 William Battell,  
 John Birge,  
 Elisha Bissell,  
 Eli Booth,  
 Abraham S. Booth,  
 Noah Baldwin,  
 Truman Barber,  
 Isaac Beebe,  
 Chester Beebe,  
 Joseph F. Beech,  
 Azer Bronson,  
 Hermon Bronson,  
 Jesse Byington,  
 Alsop Baldwin,  
 Treat Baldwin,  
 Eli Bardslee,  
 Abel B. Bardslee,  
 Abraham Blackman,  
 William Brown,

John Buckingham,  
 John Beach,  
 Adna Beach,  
 James Beebe,  
 Salmon Brownson,  
 Asahel Brownson,  
 William Bunnell,  
 Merritt Bull,  
 James Boyd,  
 John Beecher,  
 John Bronson,  
 Clark Bronson,  
 Zina Byington,  
 Samuel Brown,  
 Ezra Benjamin,  
 Whipple Brown,  
 Samuel Babcock, jun.  
 Theodore Bellows,  
 William Bailly,  
 John Bristol,  
 Miles Bishop, jun.  
 Josiah Bardslee,  
 Zerah Bardslee,  
 Lewis Beers,  
 Nathaniel Bacon, jun.  
 Increase Burr,  
 Ira Barnes,  
 Uri P. Bishop,  
 Titus Bidwell,  
 Joel Beecher,  
 Samuel Brown,  
 Benjamin Bently,  
 Noah Beckwith,  
 Ezra Beckwith,  
 John Brown,  
 Seth Bronson,  
 Uri Babcock,  
 Samuel Beebe,  
 Enoch Beecher,  
 Jonathan Bunnell,  
 Silas Barnes,  
 Philo Baldwin,

Ebenezer Bentley,  
 Stephen H. Barber.  
 C.  
 Abijah Churchill,  
 Ezra Coffe,  
 Silas Cook,  
 John Cook, jun.  
 James Corwithe,  
 Silas Corwithe,  
 William Corwithe,  
 Ezekiel Carrington,  
 Sylvester Cowles,  
 Peter Coachran,  
 Heman Coe,  
 Jonathan Crampton,  
 Darius Crampton,  
 David Cramton, jun.  
 Jesse Cramton,  
 Abel Cramton,  
 Sineus Conkling,  
 Isaac Conkling,  
 Jedediah Conkling, jun.  
 Davis Conkling,  
 Jared Cook,  
 Cuffy Cuffee,  
 John Collins,  
 Frederick Conkling,  
 William Crampton,  
 Samuel Chittenden,  
 John B. Chittenden,  
 Eber Cruttenden,  
 Samuel Crane,  
 Levi Catlin,  
 Nathan Cook,  
 Ezra Camp,  
 David Caulkins,  
 Robert Chadwick,  
 Guy Chadwick,  
 John B. Comstock,  
 Nathaniel G. Conkling,  
 Levi Camp,  
 Joel C——,

Jacob Clark,  
 Thomas Curtis,  
 Zebdial Coffin,  
 Orren Camp,  
 Ithiel Caulkins,  
 Isaac Curtis,  
 Samuel Case,  
 William D. Congdon,  
 George W. Congdon,  
 Benjamin Case,  
 Matthias Case,  
 John Clark,  
 Joseph T. Crowell,  
 Leverett Carrington,  
 John Carrington,  
 Ezra Clark,  
 Jared Clark,  
 Stephen W. Cornwell,  
 Nathamus Cutior,  
 Howes Crowell,  
 Asa Crowell,  
 John Conkling,  
 Edward W. Conkling,  
 Asa Corey,  
 Abraham Corey,  
 Phineas Corey,  
 Silvanus Cook,  
 Henry Cook,  
 Thomas Cooper,  
 Ananias Cooper,  
 Elias M. Cooper,  
 Aaron Clark,  
 Moses Clark,  
 Louis T. Casia,  
 Rily Cook,  
 Silas Castle,  
 Roswell Caulkins,  
 David Caulkins,  
 Daniel Clark,  
 Joseph Cooper,  
 James M. Cook,  
 Joel W. M. Curtis,

Samuel P. Castle,  
 Samuel N. Copley,  
 Urijah Cook,  
 John Curtis,  
 John R. Comstock,  
 Elihu Cotten, jun.  
 Shelden Castle,  
 Remus Curtis,  
 Hermas Carter,  
 Henry Cowles,  
 Roswell Cook,  
 Abraham Curtis,  
 Benjamin Curtis,  
 John F. Clark,  
 Leverett Cooper,  
 Charles Y. Cook,  
 Joel Caulkins,  
 Aner Castle,  
 Abraham Crocker,  
 Amos Cutler,  
 Noah Case,  
 David Child,  
 D.  
 Henry P. Dering,  
 Bille Doud,  
 Benjamin D. Doolittle,  
 Doty Dennison,  
 Stephen De Wolf,  
 Joseph G. Dowsell,  
 Thomas Dexter,  
 Zadock Dayton,  
 Amos Dunbar,  
 Sylvester Dering,  
 Elton Drake,  
 Joshua Drake,  
 Due Daily,  
 Phinehas Davall,  
 Franklin Davall,  
 Daniel Dibble,  
 Clark Davis,  
 Matthew D. Dayton,  
 William Davis,

Chapman Davis,  
 Thomas Drakely,  
 Roswell B. Davis,  
 Abner Dibble,  
 Moses H. Doolittle,  
 Andrew Dennison,  
 George Dutton,  
 John M. Dutton,  
 Josiah Digby,  
 Samuel D. Woolf,  
 Abner Dayton, 2d.  
 Job Dayton,  
 Charles Douglas,  
 E.

David G. Evarts,  
 Jonathan Edwards,  
 Learning Evarts,  
 Gad Evens,  
 Orange Emons,  
 Jacob Eldredge,  
 Caleb Eldredge,  
 Zebulon Elliott,  
 Curtis Egleston,  
 Josiah R. Eastman,  
 Joble D. Everts,  
 David Edwards,  
 Gershon Edwards,  
 George Emons,  
 Amasa Evens,  
 Abraham Eels,  
 Noah B. Elton,  
 Josiah H. Elton,  
 John Edwards,

F.

Philander Frazer,  
 Parleman B. Fowler,  
 Calvin Frisbee,  
 Abraham Foot,  
 James Farusworth,  
 Orin Frisbee,  
 Solomon Field,  
 Joel Fowler,

Curtis Fairchild,  
 Abner Farnham,  
 Cato Freeman,  
 James Fowler,  
 N. Fosdick, jun.  
 Richard Fosdick,  
 William French,  
 Solomon Fisk,  
 Joel Fordham,  
 Jarus Fordham,  
 Daniel B. Fordham,  
 Latham Fordham,  
 Charles Fordham,  
 Peletiah Fordham,  
 Joseph W. Foster,  
 John L. Foster,  
 Remus M. Fowler,  
 Samuel Finch,  
 Joel Finch,  
 James Frisbee,  
 Samuel Frisbee,  
 Francis Forgue,  
 Richard Fenn,  
 Solomon Frost,  
 Ebenezer French,  
 Bethuel Foot,  
 Isaac Frisbee,  
 Ishmael Freeman,  
 John Fairchild,  
 Joseph Foot, jun.  
 Simon Frazer,  
 Lemuel Forsyth,  
 Jonathan C. Fowler,  
 Noah Farrington,  
 Josiah Frost,  
 Aaron French,  
 Joseph French,  
 G.  
 Eben Griggs,  
 Solomon Griggs,  
 James Graves,  
 John L. Gardiner,

Abraham Gardiner,  
 Joshua Goldsmith,  
 Stephen Griswold,  
 William M. Griffing,  
 Rufus Gardner,  
 Ebenezer Goddard, jun.  
 John Gordon,  
 Norton Gaylard,  
 Rays Gaylord, juu.  
 Cyrus Gaylord,  
 Ozias Goodwin,  
 Davis Goldsmith,  
 Albert Goldsmith,  
 Oliver Goldsmith,  
 Benjamin Goldsmith,  
 John Godbee,  
 Stuart H. Gardner,  
 Jeremiah Gardner,  
 Nathan Gillet,  
 Aseph Gillet,  
 Luman Gilbert,  
 Samuel Grilley,  
 Silas Gunn,  
 Micha Guilford,  
 Abijah Garnsey,  
 Sheldon Givens,  
 Jacob Griggs,  
 Joseph Goodale, jun.  
 John N. Genins, jun.  
 Burr Goodwin,  
 James Greenfield,  
 Levi Granger,  
 Simeon Granger,  
 John Gorton,  
 Samuel Gains.  
 H.  
 William Hart,  
 Samuel Hobort,  
 Mason Hobort,  
 Thomas L. Havens,  
 David Halsey, jun.  
 Silvester Halsey,

Ethan Halsey, jun.  
 Silas Hand,  
 Levi Howell,  
 Orrin Hand, & Co.  
 Alanson Hill,  
 Alfred Hitchcock,  
 Josiah Holt,  
 Ira Hotchkiss,  
 Allen Hubbard,  
 Ira Hooker,  
 Hezekiah Hubbard,  
 Horace Huntington,  
 Martin Hackets,  
 Heman Harrison,  
 Dudley Henderson,  
 Joanna Hand,  
 James Hart,  
 Julius Hill,  
 Lumus T. Hoit,  
 John Hemingway,  
 James Hemingway,  
 Benjamin Hedges,  
 Nathaniel Hand,  
 Joseph H. Hand,  
 William Hubbrut,  
 Joseph Huntington,  
 Caleb L. Hurd,  
 A. S. Huntley,  
 David Huntington, jun.  
 Joel Hubbard,  
 James Haynes,  
 Absalom F. Hayden,  
 Henry Hanes,  
 Daniel Harlow,  
 Robert Harlow,  
 George H. Havens,  
 Joseph C. Havens,  
 Cesar Havens,  
 Jonathan Horton, 3d  
 Ezra Hanes,  
 Major A. Hall,  
 William Hendrick,

Asa K. House,  
 Elisha Hambleton,  
 Eliphalet Halsey,  
 Jesse Hedges,  
 Thomas L. Harris,  
 Nathaniel Havens,  
 Auira Hand,  
 Jeremiah Hedges,  
 Ithuel Hill,  
 Phinehas Hill,  
 Job Halsey,  
 Robert Hoey,  
 Silas Hoibert,  
 Isaac B. Hawley,  
 Nathan S. Hurd,  
 Thomas Hurlbut,  
 William Hoadley, jun.  
 Henry L. Hitchcock,  
 William Hakens,  
 Amos Hine,  
 Joel Hickcox,  
 David Hungerford,  
 Isaac Hine,  
 John C. Hooker,  
 Joel Hotchkiss,  
 Jesse Horton,  
 Erastus G. Hurlbut,  
 Daniel Harris,  
 Aaron Harrison, jun.  
 Abner Hotchkiss,  
 Timothy Hotchkiss,  
 Elisha Horton,  
 Ezra Havens,  
 Charles F. Halsey,  
 John Hildreth,  
 John Hubbard,  
 John How,  
 Daniel Huntington,  
 Scavil Hinman,  
 Ara Hawly,  
 Dan Hart,  
 John A. Hart,

Stephen W. Hart,  
James Hooker,  
Chauncy Hooker,  
David Halsey,  
Ezekiel Havens.

I.

Amasa Ives, jun. & Co.  
Isaac B. Ingraham,  
George A. Ives,

J.

Lyman Jearoms,  
Orin Jeroms,  
Timothy Johnson,  
James Jarvis,  
Samuel Jeffers,  
Joseph Jones,  
Joel Judd,  
Immer Judd,  
David C. Jennings,  
Frederick Jessup,  
Elias Jones,  
Wells Judson,  
Gideon Johnson,  
Benjamin H. Judd,  
Levi Johnson,  
Reuben Judd,  
Enoch Judd,  
Benjamin Judson, jun.  
Chauncy Jordan,  
Nathan Jackson,

K.

Wheeler Kirtland,  
Thompson Kimberly,  
Seymour Knapp,  
Jonathan King,  
Gideon Kelley,  
Joseph Keeler,  
Joseph King,  
Richard Keeler,  
Phinehas King,  
Gurden King,  
Phinehas King,

Ebenezer Kellogg,  
Joseph Kellis,

L.

Anthony Ludlow,  
James Lee, jun.  
Adna Lewis,  
Noah Lewis,  
Levi Lewis,  
Bennet Lester,  
Peter G. Lonree,  
William Loper,  
Jacob Leak,  
Ebenezer Lester,  
Noah Lane, 2d  
David Little,  
Asahel Lankton,  
William Lewis,  
Hubbard Latham,  
Peleg Latham,  
Daniel Latham,  
Hubbard Latham, jun.  
Eden S. Latham,  
Daniel L'Hommedieu,  
George Lugar,  
Benjamin E. Loper,  
Chester Loomis,  
Asahel Loomis,  
Reuben Loomis,  
Oliver Loomis,  
Wait Loomis,  
Abner Loomis,  
Fitch Loomis,  
Elisha Loomis,  
Carrington S. Loomis,  
Lorrain Loomis,  
Nathaniel Lewis,  
Lud Linsley,  
Solomon Learnly,  
John Learnly,  
Edmond Lockwood,  
Drake Lockwood,  
Jesse P. Lambert,

Enoch Lewis,

M.

Samuel Meegs,

Mareman Menger,

James M<sup>c</sup>Queen,

Andrew Morris,

Nathaniel Matthews,

Simeon Matthews,

Orin Merriman,

John S. Mitchell,

Phenehas Meegs,

Betsey Munson,

Nathaniel Miller,

Jeremiah Miller,

Asa Miller,

Benjamin Miller,

Timothy Miller,

Nathaniel Miller,

John Moss, jun.

Jabez M<sup>c</sup>Call,

Samuel M<sup>c</sup>Nail, 2d.

Ives Moss,

William Mansfield,

Giles Manwaring,

John Manwaring,

Michael F. Mills,

Philo Munson,

Zadock Mann,

Oliver Mayo,

Anson Matthews,

Albert Merriman,

Jonathan Montague,

Noyes Munson,

Hezekiah May,

John Mitchel,

Patrick M<sup>c</sup>Kiaugh,

John Mills,

Ambros Marshall,

William Miller,

James Miles,

Elijah Merriam,

Daniel Matthews,

Joel Miller,

Ezra Matticock,

Elihu Malthrop,

John O. Merrow,

William Monson,

Asahel Mitchel,

Asbbel Moody,

Seth Miner, jun.

Caleb Mapes,

William More,

Eliphalet Manwaring,

John Mulford,

David Miller, 3d.

Robert More,

N.

John Norris,

Hezekiah Newton,

Salmon Norton,

James Norton,

Horace Nichols,

Benjamin Noble,

William Noyes,

William Nettleton,

Joshua Nettleton, jun.

Matthew Noble,

Daniel Northway,

Amos Newel,

Asaph Newcomb,

Peleg Niles,

James Nickerson,

Joseph Nettleton,

Samuel H. Nettleton,

John Nash,

Warren W. Norton,

James Neel,

Ziba Norton,

Henry Norris,

Gideon Nichols,

Silas Newcomb,

Bradford Newcomb,

John C. Nichols,

Aden Norton,

Benjamin J. Norton,  
Charles Nobles,  
David D. Nettleton,  
Christopher Newel,  
John C. Newel,  
Andrew Noyes,  
Solomon Newton,  
Ozias R. Neeb.

O.

James Olmstead,  
John O'Brien,  
James Overton,  
Claudious B. Oviatt,  
Asahel Osborn.

P.

Asahel Platts,  
Charles Poger,  
Samuel Parsons,  
Samuel Platts,  
John Parsons,  
Jesse Pierson,  
Pitkin Pond,  
Richard Parker,  
Elijah M. Perkins,  
Shadrach Pierce,  
Elijah P. Perkins,  
Dudly Pease,  
Calvin Pease,  
Solomon Pease,  
Frederick Plumb,  
Norman Palmer,  
Asa Peck,  
Ezekiel Payne,  
Charles W. Payne,  
Hedges Parsons,  
John Parsons, 2d.  
Isaac Plato,  
Alden Potter,  
Thomas Potter,  
Harvey Pope,  
Luther Peck,  
David P——,

Israel Perkins,  
Frederick Phelps,  
Joel W. Phelps,  
Derius Phelps,  
Samuel Pettibone, jun.,  
Lent Parker,  
William Parker,  
Thomas W. Painter,  
Jedediah Phelps,  
James Pardee,  
William Parker,  
James Parker,  
Henry Parker,  
Abraham Parker,  
Silvanus Payne,  
Rufus Payne,  
Zacheus Payne,  
John Pierson,  
Daniel Pierson,  
Amos Prentice,  
Elisha Prior,  
Green Perkins,  
Asahel Porter,  
Lemuel Porter,  
Jonathan Prindle,  
Nathaniel Phelps,  
John Partree,  
Linus Prindle,  
Archibald Perkins,  
Israel Perkins,  
William Phillips,  
Moses Pond, jun.,  
John Parker,  
Zephna Potter,  
Amos Pierson,  
Charles Prindle,  
Lot Porter,  
Noah L. Phelps,  
Zebulon Payne,  
Joel W. Page,  
John Potter,  
Samuel P. Potter,



Horace Pease,  
 Eldad M. Pease,  
 Samuel Peck,  
 Noah Peck,  
 John B. Parker,  
 Israel Phelps,  
 Stephen Prentice,  
 Merrit Parker,  
 Jacob Parker,

R.

Philemon Rogers,  
 Samuel H. Rose,  
 James Rogers,  
 William Rogers,  
 Shelden Rich,  
 Samuel Root,  
 Nathaniel H. Root,  
 Elias Roberts,  
 Titus M. Roberts,  
 Alban Rose,  
 Hosea Roberts,  
 Reuben Roys,  
 Martin S. Rowly,  
 Abraham Ranger,  
 Samuel Ranger,  
 James Y. Raynor,  
 Nathaniel Robbins,  
 Nathaniel Roys,  
 William Raymond,  
 David Russell,  
 David Russell, jun.,  
 Thaddeus Russell,  
 Nathaniel Russell,  
 Enoch Ryder,  
 Sceva Rogers,  
 Adam Ross,  
 John Rood,  
 Abel Roberts,  
 Seth Roberts,  
 Dan Roberts,  
 Josiah Root,  
 Gideon Richards,

Phinehas Read,  
 David Reeve, jun.,  
 Thomas Root,  
 Seth Richards,  
 Abraham Richards,  
 Abner W. Richards,  
 Thomas B. Rice,  
 David Ranger,  
 Asahel Rogers,  
 Oliver Russell,  
 Josiah Russel,  
 Thaddeus Ranger,  
 Seth Read,  
 Thomas G. Root,

S.

Nathan Sandford,  
 Charles Simmons,  
 Zerah Skidmore,  
 Walter D. Smith,  
 Luther Stocking,  
 Roswell Shelden,  
 William Spink,  
 Talmage Strong,  
 Lewis Sandford,  
 Isaac W. Shelton,  
 John Smith,  
 Randolph Stone,  
 Horace Smith,  
 Andrew Stevens, jun.,  
 Benjamin Seegwick,  
 David Smith,  
 Theophilus Seranton,  
 Thomas Shelly,  
 Andrew L. Stone,  
 Daniel Schellinger,  
 Abraham Schellenger,  
 Sylvester Strong,  
 William Scovil,  
 Caleb Sanders,  
 Oliver Spaulding,  
 Horace Smith,  
 Chester Smith,

Henry Smith,  
 Nathan Stevens,  
 Stephen Shelton,  
 John Sutliff,  
 George Stannard,  
 Abraham Sherril,  
 Elijah Stannard,  
 Ezekiel Slipper,  
 John Seabury,  
 Stephen Seabury,  
 John Sherman,  
 Oliver Slate  
 John Smith,  
 Elijah Simons,  
 Sayre Steward,  
 Nathan Stewart,  
 Nathaniel M. Smith,  
 — Spencer,  
 Nathaniel Sherman,  
 Asahel Scott,  
 Ebenezer Scott,  
 Roswell Smith,  
 Henry Smith,  
 Anson Smith,  
 Elisha Stevens,  
 Leonard Steele,  
 Elias Stilson,  
 Hezekiah Scott,  
 Samuel Smith,  
 Harvey Smith,  
 Dean Swift,  
 Asahel Scovill,  
 Berzillai Smith,  
 Samuel Sandford,  
 William Scovill,  
 Thomas Sill,  
 David Sherman,  
 Elijah Sherman, jun.  
 Anthony Stodard,  
 John D. Stillman,  
 Joseph Smith,  
 Pomroy Strong,

John Starr,  
 Joseph Sistare,  
 Francis Sistare,  
 Elisha Strong,  
 Noah Strong,  
 Samuel C. Strong,  
 Ira Steward,  
 Joseph Sherman,  
 Silas Smith,  
 John Sperry, jun.  
 Amos G. Stone,  
 John Scott,  
 Obediah Scovil,  
 Abraham Smith,  
 Paul G. Smith,  
 William Stodard, jun.  
 Jonathan H. Stratton,  
 Ira Sandford,  
 T.  
 Shelden Thompson,  
 Daniel Thompson,  
 Reuben Tinker,  
 James Teadman,  
 Samuel Tyler, jun.  
 Stephen H. Topping,  
 Stephen Topping,  
 Nathaniel B. Topping,  
 Henry Topping,  
 Charles Thompson,  
 Lydia Thompson,  
 John Tousey,  
 John Tyler,  
 Thomas Trowbridge,  
 Pierpoint I. Turner,  
 Jonathan Tinker.  
 Allen Tinker,  
 Hynds L. Tinker,  
 Dan Tinker,  
 Stephen Tibbals,  
 Barzel Treat,  
 Jedediah Tucker,  
 Beach Tomlinson,

Oliver Tennant,  
 Jesse Terry,  
 Joseph Tuthill,  
 David Tarbell, jun.  
 Irijah Terrel,  
 Lotsom Terrel,  
 Chloe Tyler,  
 John Terrel,  
 Philo Thomas,  
 Ransom Toles,  
 Truman Tuttle,  
 Noble Tyler,  
 Seymour Tuttle,  
 Harvey Treadway,  
 John Throop,  
 Richard Tinker,  
 Timothy Terrel,  
 Samuel Tomlinson,  
 Samuel Tobey,  
 Daniel Talmage,  
 William Taylor,  
 U.  
 Benjamin Upson,  
 John Upsen, jun.  
 John Underwood,  
 V.  
 Silas B. Vail,  
 Nathaniel Vaughn.  
 W.  
 Josiah Williams,  
 Benjamin Wilcox,  
 John Willford,  
 Daniel Wildman,  
 Antepus Woodward,  
 Harvey Wright,  
 Reuben Wilcox,  
 Levi Ward,  
 Josiah Willard,  
 Curtis Wilcox,  
 James Williams,  
 John Woodward, jun.

Claudeus Webster,  
 White Webster,  
 Orrin Wakefield,  
 Jabez Ward,  
 John Warner,  
 Jason Wright,  
 Noah Warner,  
 John C. Webster,  
 Amos Woodruff,  
 Isaac Way,  
 Jared Wade,  
 Isaac Wade,  
 Selah Whiting,  
 Zenas Wright,  
 Samuel B. Woodward,  
 Ebenezer Warner,  
 Anson Warner,  
 Daniel Weeb,  
 Alanson W. Welton,  
 Azariah Woolworth,  
 Jesse Wooster,  
 Johnson F. Wetton,  
 Abel G. Welton,  
 Joseph Woodruff,  
 Samuel Woodruff,  
 Herman Wooding,  
 David Wooding,  
 John Westlake,  
 Chauncy White,  
 Silas Weed,  
 Silas Woodruff,  
 Jonathan Williams,  
 Romeo Welton,  
 Edwin Wadsworth,  
 Mandly Welton,  
 S. & N. Warren,  
 James Welch,  
 Laban Williams,  
 William Williams, 2d.  
 Alexander Wood,  
 Elias White.

Y.  
John York,  
Joseph Yeomans,  
John Youngs.

FORT TRUMBULL,  
*New-London, (Con.)*  
Joel Cook, *Captain.*  
Nicoll Fosdick, *jun. 1st Lt.*

Ebenezer Way, *2nd Lt.*  
Abraham Hawkins, *Ens.*  
James A. Bennett, *Serg.*  
Jonathan Brown,  
Caleb Betts,  
Lyman Loomis,  
James Parker,  
Daniel Shelton,  
John St. Clair.

*\* \* It is regretted that a number of subscription papers were not returned when the last sheet was put to press. Those who have subscribed, and their names not printed, are assured that they are considered as patrons, and shall have the book at the same price as though their names were printed.*

## ERRATA.

**NOTE.**—*P. stands for Page, L. for Line, R. for Read.*

P. 6, L. 14, for after the same name of, R. one period higher than,

P. 40, L. 5 from the bottom, for Gregory VIII, R. Gregory XIII.

P. 147, under 7 per cent. for \$9 4 6 R. \$0 4 6.

P. 172, against 5 pwt 8 gr. for \$4 94 4 R. \$4 74 4.—Next L. for \$4 98 R. \$4 78.—Ib. L. 29, for 8 pwt. R. 9 pwt.

P. 173, Half Eagles, for 4 pwt. 15 gr. R. 5 pwt. 15 gr.

P. 206, against Spica, for 13 H. 16 M. R. 13 H. 26 M.

P. 210, under Rhode-Island, L. 3, for four sessions, R. two sessions.

No. 16, L. 30, for N. 20, R. N. 30.

No. 19, L. 18, for N. 88, R. N. 98.

No. 29, N. 81, for 22 49, R. 23 49.

No. 58, N. 00, R. N. 100.



*\*\*\* Some of the above errors were discovered and corrected, whilst the sheets were in the press; they will consequently appear only in a part of the Books.*



